Quality Analysis ... *Innovative Technologies*

Date Submitted: 12-Nov-18
Invoice No.: A18-17207-Au
Invoice Date: 08-Feb-19
Your Reference: BMK-2017

MacDonald Mines Exploration Ltd.
145 Wellington Street West
Suite 1001
Toronto ON M5J 1H8
Canada

ATTN: Vice President of Exploration Quentin Yarie (INV+CERT)

CERTIFICATE OF ANALYSIS

324 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50 Au - Fire Assay AA (QOP AA-Au)

Code 1A4-1000 (100mesh) Au-Fire Assay-Metallic Screen-1000g

REPORT **A18-17207-Au**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

A representative 1000 gram split is seived at 100 mesh (149 micron) with assays performed on the entire +100 mesh and 2 splits of the -100 mesh fraction. A final assay is calculated based on the weight of each fraction.

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

FOOTNOTE: Insufficient material for 1A4: 918006, 918042, 918043, 918044, 918061, 918078, 918094, 918095, 916608, 916609, Code 1A3 was done instead of 1A4.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
709901	< 5	
709902	7	
709903	< 5	
709904	< 5	
709905	8	
709906	8	
709907	6	
709908	40	
709909	40	
709910	7	
709911	10	
709912	16	
709913	7	
709914	< 5	
709915	< 5	
709916	8	
709917	8	
709918	10	
709919	14	
709920	21	
709921	68	
709922	63	
709923	21	
709924	24	
709925	39	
709926	22	
709927	6	
709928	10	
709929	< 5	
709930	< 5	
709931	< 5	
709932	13	
709933	129	
709934	25	
709935	22	
709936	28	
709937	< 5	
709938	< 5	
709939	6	
709940	> 5000	5.49
709941	12	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
709942	5	
709943	< 5	
709944	12	
709945	< 5	
709946	< 5	
709947	6	
709948	< 5	
916560	6	
916561	9	
916562	8	
916563	50	
916564	6	
916565	8	
916566	9	
916567	16	
916568	10	
916569	17	
916570	17	
916501	35	
916502	19	
916503	16	
916504	6	
916505	< 5	
916506	6	
916507	37	
916508	< 5	
916509	< 5	
916510	9	
916511	16	
916512	< 5	
916513	< 5	
916514	13	
916515	< 5	
916516	< 5	
916517	7	
916518	< 5	
916519	5	
916520	< 5	
916521	< 5	
916522	< 5	
916523	< 5	
916524	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
916525	< 5	
916526	8	
916527	< 5	
916528	< 5	
916529	< 5	
916530	< 5	
916531	< 5	
916532	23	
916533	7	
916534	< 5	
916535	8	
916536	< 5	
916537	< 5	
916538	< 5	
916539	< 5	
916540	555	
916541	< 5	
916542	12	
916543	< 5	
916544	6	
916545	< 5	
916546	< 5	
916547	< 5	
916548	< 5	
916549	< 5	
916550	< 5	
916551	< 5	
916552	< 5	
916553	< 5	
916554	< 5	
916555	5	
916556	< 5	
916557	5	
916558	5	
916559	< 5	
709601	< 5	
709602	< 5	
709603	< 5	
709604	8	
709605	12	
709606	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
709607	< 5	
709608	< 5	
709609	< 5	
709610	29	
709611	< 5	
709612	< 5	
709613	8	
709614	< 5	
709615	< 5	
709616	< 5	
709617	< 5	
709618	< 5	
709619	5	
709620	< 5	
709621	11	
709622	9	
709623	< 5	
709624	< 5	
709625	< 5	
709626	< 5	
709627	< 5	
709628	8	
709629	25	
709630	11	
709631	18	
709632	9	
709633	5	
709634	< 5	
709635	< 5	
709636	< 5	
709637	< 5	
709638	< 5	
709639	9	
709640	> 5000	5.36
709641	< 5	
709642	6	
709643	6	
709644	< 5	
709645	< 5	
709646	9	
709647	6	
709648	5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
709649	5	
709650	< 5	
709651	5	
709652	7	
709653	6	
709654	12	
709655	< 5	
709656	< 5	
709657	10	
709658	7	
709659	8	
709660	8	
709661	14	
709662	< 5	
709663	25	
709664	< 5	
709665	< 5	
709666	< 5	
709667	6	
709668	9	
709669	7	
709670	7	
709671	5	
709672	< 5	
709673	< 5	
709674	< 5	
709675	6	
709676	6	
709677	9	
709678	5	
709679	8	
709680	8	
709681	< 5	
709682	> 5000	11.7
918001	6	
918002	5	
918003	< 5	
918004	12	
918005	7	
918006		< 0.02
918007	6	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
918008	< 5	
918009	5	
918010	< 5	
918011	< 5	
918012	< 5	
918013	< 5	
918014	5	
918015	< 5	
918016	< 5	
918017	16	
918018	217	
918019	102	
918020	7	
918021	7	
918022	5	
918023	14	
918024	27	
918025	< 5	
918026	< 5	
918027	20	
918028	14	
918029	7	
918030	6	
918031	1550	
918032	10	
918033	< 5	
918034	18	
918035	8	
918036	6	
918051	< 5	
918052	< 5	
918053	< 5	
918054	< 5	
918055	< 5	
918056	6	
918057	5	
918058	14	
918059	8	
918060	< 5	
918061		0.12
918062	45	
918063	25	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
918064	234	
918065	523	
918066	< 5	
918067	< 5	
918068	5	
918069	< 5	
918070	< 5	
918071	1600	
918072	11	
918073	< 5	
918074	39	
918075	179	
918076	28	
918077	1010	
918078		0.23
918079	46	
918080	110	
918081	1810	
918082	9	
918083	34	
918084	16	
918085	10	
918086	19	
918087	28	
918088	11	
918089	14	
918090	6	
918091	711	
918092	11	
918093	< 5	
918094		2.39
918095		< 0.02
918037	< 5	
918038	< 5	
918039	85	
918040	< 5	
918042		< 0.02
918043		< 0.02
918044		< 0.02
918045	51	
918046	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
918047	< 5	
918048	5	
918049	< 5	
918050	< 5	
916601	< 5	
916602	< 5	
916603	< 5	
916604	< 5	
916605	< 5	
916606	8	
916607	< 5	
916608		0.63
916609		0.69
916651	< 5	
916652	< 5	
916653	< 5	
916654	< 5	
916655	11	
916656	< 5	
916657	< 5	
916658	< 5	
916659	155	
916660	36	
916661	< 5	
916662	< 5	
916663	< 5	
916664	6	
916665	< 5	
916666	23	
916667	567	
L752038	81	
L752039	808	
L752040	146	
L752002	9	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
SQ48 Meas		30.2
SQ48 Cert		30.25
SQ48 Meas		30.5
SQ48 Cert		30.25
SQ48 Meas		29.4
SQ48 Cert		30.25
SQ48 Meas		30.5
SQ48 Cert		30.25
SF67 Meas	870	
SF67 Cert	835	
SF67 Meas	850	
SF67 Cert	835	
OREAS 214 Meas	3150	
OREAS 214 Cert	3030	
OREAS 214 Meas	3110	
OREAS 214 Cert	3030	
OREAS 214 Meas	3120	
OREAS 214 Cert	3030	
OREAS 214 Meas	3090	
OREAS 214 Cert	3030	
OREAS 214 Meas	3110	
OREAS 214 Cert	3030	
OREAS 214 Meas	3170	
OREAS 214 Cert	3030	
OREAS 218 Meas	531	
OREAS 218 Cert	531	
OREAS 218 Meas	542	
OREAS 218 Cert	531	
OREAS 218 Meas	549	
OREAS 218 Cert	531	
OREAS 218 Meas	549	
OREAS 218 Cert	531	
OREAS 218 Meas	524	
OREAS 218 Cert	531	
OREAS 218 Meas	539	
OREAS 218 Cert	531	
OREAS 220 (Fire Assay) Meas	891	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	861	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	872	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	852	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	893	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	850	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	890	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	852	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	878	
OREAS 220 (Fire Assay) Cert	866	
OREAS 220 (Fire Assay) Meas	862	
OREAS 220 (Fire Assay) Cert	866	
OREAS 229 (Fire Assay) Meas		11.7
OREAS 229 (Fire Assay) Cert		12.1
OREAS 229 (Fire Assay) Meas		12.2
OREAS 229 (Fire Assay) Cert		12.1
OREAS 224 Meas	2220	
OREAS 224 Cert	2150	
OREAS 224 Meas	2240	
OREAS 224 Cert	2150	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
OREAS 224 Meas	2220	
OREAS 224 Cert	2150	
OREAS 209 (Fire Assay) Meas	1590	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1590	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1570	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1640	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1620	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1600	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1630	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1560	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1600	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1550	
OREAS 209 (Fire Assay) Cert	1580	
OREAS 209 (Fire Assay) Meas	1580	
OREAS 209 (Fire Assay) Cert	1580	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
709901 Orig	< 5	
709901 Dup	6	
709912 Orig	15	
709912 Dup	16	
709923 Orig	19	
709923 Dup	22	
709933 Orig	153	
709933 Dup	105	
916561 Orig	9	
916561 Split PREP DUP	8	
916568 Orig	10	
916568 Dup	9	
916508 Orig	< 5	
916508 Dup	< 5	
916518 Orig	< 5	
916518 Dup	< 5	
916538 Orig	< 5	
916538 Dup	< 5	
916541 Orig	< 5	
916541 Split PREP DUP	< 5	
916545 Orig	< 5	
916545 Dup	< 5	
916546 Orig	< 5	
916546 Dup	< 5	
916556 Orig	< 5	
916556 Dup	< 5	
916559 Orig	< 5	
916559 Dup	46	
709615 Orig	< 5	
709615 Dup	< 5	
709625 Orig	< 5	
709625 Dup	< 5	
709632 Orig	9	
709632 Split PREP DUP	8	
709641 Orig	< 5	
709641 Dup	10	
709655 Orig	< 5	
709655 Dup	< 5	
709665 Orig	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
709665 Dup	6	
709670 Orig	7	
709670 Dup	7	
709680 Orig	7	
709680 Dup	8	
709681 Orig	< 5	
709681 Split PREP DUP	5	
709682 Orig		11.7
918013 Orig	< 5	
918013 Dup	< 5	
918027 Orig	20	
918027 Dup	19	
918051 Orig	< 5	
918051 Dup	< 5	
918064 Orig	234	
918064 Split PREP DUP	171	
918066 Orig	< 5	
918066 Dup	< 5	
918070 Orig	< 5	
918070 Dup	< 5	
918082 Orig	7	
918082 Dup	10	
918092 Orig	12	
918092 Dup	10	
918094 Orig		2.53
918094 Dup		2.25
918043 Orig		< 0.02
918043 Dup		< 0.02
916602 Orig	< 5	
916602 Dup	< 5	
916606 Orig	8	
916606 Split PREP DUP	9	
916653 Orig	< 5	
916653 Dup	< 5	
916663 Orig	< 5	
916663 Dup	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA-GRA
Method Blank	< 5	
Method Blank	79	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02
Method Blank		< 0.02
Method Blank		< 0.02
Method Blank		< 0.02
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02