Quality Analysis ... *Innovative Technologies*

Date Submitted:	02-Oct-18
Invoice No.:	A18-14284-Au
Invoice Date:	21-Nov-18
Your Reference:	BMX 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

218 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

Code ME-MS61-RedPine Total Digestion ICP & ICP/MS

REPORT **A18-14284-Au**

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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

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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Analyte Symbol	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	Au
Unit Symbol	ppb	g/mt	g/mt	g/mt	g/mt	g	g	g	g/tonne
Lower Limit	5	0.03	0.03	0.03	0.03				0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-GRA
709381	< 5								
709382	< 5								
709383	< 5								
709384	< 5								
709385	< 5								
709386	< 5								
709387	< 5								
709388	< 5								
709389	< 5								
709390	5								
709391	< 5								
709392	< 5								
709393	< 5								
709394	< 5								
709395	< 5								
709396	< 5								
709397	< 5								
709398	< 5								
709399	< 5								
709400	< 5								
709401	< 5								
709402	< 5								
709403	< 5								
709404	< 5								
709405	< 5								
709406	< 5								
709407	14								
709408	10								
709409	< 5								
709410	< 5								
709411	< 5								
709412	< 5								
709413	18								
709414	14								
709415	6								
709416	7								
709417	< 5								
709418	< 5								
709419	31								

Analyte Symbol	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	Au
Unit Symbol	ppb	g/mt	g/mt	g/mt	g/mt	g	g	g	g/tonne
Lower Limit	5	0.03	0.03	0.03	0.03				0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-GRA
709420	< 5								
709421	9								
709422	< 5								
709423	< 5								
709424	< 5								
709425	14								
709426	< 5								
709427	31								
709428	7								
709429	8								
709430	15								
709431	6								
709432	< 5								
709433	6								
709434	14								
709435	9								
709436	< 5								
709437	< 5								
709438	5								
709439	< 5								
709440	> 5000								12.2
709441	< 5								
709442	6								
709443	6								
709444	< 5								
709445	9								
709446	< 5								
709447	< 5								
709448	12								
709449	< 5								
709450	< 5								
709451	< 5								
709452	13								
709453	< 5								
709454	< 5								
709455	8								
709456	< 5								
709457	< 5								
709458	15								

Analyte Symbol	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	Au
Unit Symbol	ppb	g/mt	g/mt	g/mt	g/mt	g	g	g	g/tonne
Lower Limit	5	0.03	0.03	0.03	0.03				0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-GRA
709459	< 5								
709460	< 5								
709461	6								
709462	< 5								
709463	129								
709464	< 5								
709465	< 5								
709466	< 5								
709467	< 5								
709468	< 5								
709469	12								
709470	< 5								
709471	< 5								
709472	19								
709473	18								
709474	< 5								
709475	< 5								
709476	< 5								
709477	< 5								
709478	< 5								
709479	< 5								
709480	1500								
709481	12								
709482	< 5								
709483	12								
709484	9								
709485	6								
709486	< 5								
709487	11								
709488	16								
709489	6								
709490	6								
709491	< 5								
709492	129								
709493	36								
709683	7								
709684	< 5								
709685	< 5								
709686	< 5								

Analyte Symbol	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	Au
Unit Symbol	ppb	g/mt	g/mt	g/mt	g/mt	g	g	g	g/tonne
Lower Limit	5	0.03	0.03	0.03	0.03				0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-GRA
709687	6								
709688	5								
709689	10								
709690		< 0.03	0.33	< 0.03	0.16	48.77	952.00	1000.8	
709691		0.12	0.59	0.82	0.68	50.66	940.00	990.70	
709692		0.05	< 0.03	0.17	0.08	40.11	960.00	1000.1	
709693		< 0.03	0.03	< 0.03	< 0.03	49.42	876.00	925.42	
709703	< 5								
709704	6								
709705	8								
709706		0.36	0.38	0.13	0.26	47.28	988.00	1035.3	
709707	17								
709708	< 5								
709709	7								
709710	9								
709711	16								
709712	9								
709713	< 5								
709714	< 5								
709715		0.32	0.85	0.43	0.62	43.45	964.00	1007.5	
709716		0.25	0.46	0.03	0.25	50.96	914.00	964.96	
709717	11								
709718		0.61	0.46	0.40	0.44	39.47	930.00	969.47	
709719	< 5								
709720	54								
709721	34								
709722	< 5								
709723	17								
709724		0.60	0.99	0.85	0.91	31.65	916.00	947.65	
709725	< 5								
709726	6								
709727	8								
709728	< 5								
709729	< 5								
709730	< 5								
709731	192								
709732	> 5000								12.2
709151	8								
709152	5								

Analyte Symbol	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	Au
Unit Symbol	ppb	g/mt	g/mt	g/mt	g/mt	g	g	g	g/tonne
Lower Limit	5	0.03	0.03	0.03	0.03				0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-GRA
709153	36								
709154	39								
709155	6								
709156	5								
709157	126								
709158	207								
709159	< 5								
709160	58								
709161	6								
709162	5								
709163	< 5								
709164	12								
709165	10								
709166	26								
709167	< 5								
709168	< 5								
709169	< 5								
709170	< 5								
709171	6								
709172	18								
709173	36								
709174	23								
709175	10								
709176	7								
709177	5								
709178	9								
709179	146								
709180	< 5								
709181	< 5								
709182	29								
709183	< 5								
709184	8								
709185	< 5								
709186	7								
709187	< 5								
709188	5								
709189	49								
709190	7								
709191	< 5								

Analyte Symbol	Au	Au + 100 mesh	Au - 100 mesh (A)	Au - 100 mesh (B)	Total Au	+ 100 mesh	- 100 mesh	Total Weight	Au
Unit Symbol	ppb	g/mt	g/mt	g/mt	g/mt	g	g	g	g/tonne
Lower Limit	5	0.03	0.03	0.03	0.03				0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-MeT	FA-GRA
709192	246								
709193	100								
709194	6								
709195	36								
709196	367								
709197	9								
709951	6								
709952	< 5								
709953	9								
709954	< 5								
709955	49								
709956	116								
709957	6								
709958	13								
709959	15								
709960	8								
709961	14								
709962	< 5								
709963	< 5								
709964	1700								
709965	53								
709966	5								
709967	> 5000								5.55

Analyte Symbol	Au	Total Au	Total Weight	Au
Unit Symbol	ppb	g/mt	g	g/tonne
Lower Limit	5	0.03		0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-GRA
SQ48 Meas				30.5
SQ48 Cert				30
SF67 Meas	807			
SF67 Cert	835			
OxK110 Meas		3.66		
OxK110 Cert		3.602		
OXN117 Meas		7.92		
OXN117 Cert		7.679		
OREAS 214 Meas	2900			
OREAS 214 Cert	3030			
OREAS 214 Meas	2900			
OREAS 214 Cert	3030			
OREAS 214 Meas	2890			
OREAS 214 Cert	3030			
OREAS 218 Meas	498			
OREAS 218 Cert	531			
OREAS 218 Meas	509			
OREAS 218 Cert	531			
OREAS 218 Meas	511			
OREAS 218 Cert	531			
OREAS 220 (Fire Assay) Meas	843			
OREAS 220 (Fire Assay) Cert	866			
OREAS 229 (Fire Assay) Meas				12.0
OREAS 229 (Fire Assay) Cert				12.1
OREAS 224 Meas	2050			
OREAS 224 Cert	2150			
709389 Orig	< 5			
709389 Dup	< 5			
709399 Orig	< 5			
709399 Dup	< 5			
709411 Orig	< 5			
709411 Dup	< 5			
709430 Orig	15			
709430 Split PREP DUP	14			
709431 Orig	5			
709431 Dup	6			
709439 Orig	9			

Analyte Symbol	Au	Total Au	Total Weight	Au
Unit Symbol	ppb	g/mt	g	g/tonne
Lower Limit	5	0.03		0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-GRA
709439 Dup	< 5			
709449 Orig	< 5			
709449 Dup	< 5			
709464 Orig	< 5			
709464 Dup	< 5			
709474 Orig	5			
709474 Dup	< 5			
709481 Orig	12			
709481 Split PREP DUP	10			
709492 Orig	134			
709492 Dup	124			
709707 Orig	18			
709707 Dup	16			
709727 Orig	9			
709727 Dup	6			
709728 Orig	< 5			
709728 Split PREP DUP	< 5			
709155 Orig	6			
709155 Dup	5			
709167 Orig	< 5			
709167 Dup	< 5			
709181 Orig	8			
709181 Dup	< 5			
709953 Orig	9			
709953 Dup	9			
709965 Orig	52			
709965 Dup	53			
709966 Orig	5			
709966 Split PREP DUP	13			
Method Blank		< 0.03	0.00000	
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			

Analyte Symbol	Au	Total Au	Total Weight	Au
Unit Symbol	ppb	g/mt	g	g/tonne
Lower Limit	5	0.03		0.02
Method Code	FA-AA	FA-MeT	FA-MeT	FA-GRA
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			
Method Blank	< 5			
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	< 5			
Method Blank	< 5			