



MacDonald Mines Exploration Ltd.

MacDonald Mines Extends High-Grade Gold Zones to the North and Down Dip, Intersects 3.6 g/t Gold over 6m and 4 g/t Gold over 9.4m Commences Winter Drilling Program

Toronto, Ontario - January 20, 2020 - MacDonald Mines Exploration Ltd. (TSX-V: BMK) ("MacDonald Mines", "MacDonald" or the "Company") announces further results from the diamond drill program completed last fall at its SPJ Property, 40 kilometres east of Sudbury, Ontario. Hole SM-19-008 intersected 3.6 g/t gold over 6 metres, including 21.5 g/t over 0.8 metres, testing the down-dip continuity of the gold zones of the North Pit area. Hole SM-19-012 intersected 4.0 g/t over 9 metres, including 9.1 g/t gold and 0.02% cobalt over 0.9 metres, testing the northern extension of the Scadding Mine. The results from the upper chlorite zone in hole SM-19-012 in which visible gold was observed, are still pending.

Highlights:

- Hole SM-19-008 successfully extended at depth gold mineralization in the Bristol and Monaco structures in the North Pit area:
 - 3.6 g/t gold over 6 metres, including 21.5 g/t gold over 0.8 metres in the Monaco Structure
- Hole SM-19-012 successfully extended mineralization north of the Scadding Mine:
 - 4.0 g/t gold over 9.4 metres, including 9.1 g/t gold and 0.02% cobalt over 0.9 metres
 - Results for a chlorite zone intersected between 48.6 and 55.3 metres, in which visible gold was observed, remain pending;
 - Hole SM-19-012 was stopped near the upper contact of the Bristol breccia as the significance and geological characteristics of that breccia zone were not known

when the hole was drilled.

Quentin

Yarie, MacDonald's President and CEO commented: *"The 2019 drilling results continue to significantly expand the extensions and footprint of the high-grade gold mineralization found at the Scadding Deposit. We have confirmed that mineralization extends at depth in the Monaco and Bristol structures in the North Pit area, and we have indications in hole SM-19-008 that gold-cobalt mineralization is also possible in those structures - leading to the possibility of a much larger geological system at work than historically thought. Hole SM-19-012 shows that the mineralized structures mined at the Scadding Mine remain open to the north and that additional step-outs into those structures are able to discover further zones and extensions of high-grade gold mineralization."*

Table 1. Assay highlights from holes SM-19-008 and SM-19-012:

Hole	From (m)	To (m)	Length (m)*	Gold (g/t)	Cobalt (%)	Visible Gold	Structure
SM-19-008	129.1	135.1	6	3.6		VG	Monaco
Including							
	129.2	130	0.8	21.5			
	154.1	155.4	1.3	1.3		VG	
	179.1	186.1	7	0.4	0.01	VG	Bristol
	105.9	115.3	9.4	4			
SM-19-012	Including						Talladega
	109.9	110.8	0.9	9.1	0.02		