

# Palladium One Discovery Indicates Significant Mineralization Potential at the Disraeli PGE Project

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Toronto, December 9, 2020 - A new high-resolution drone magnetic survey discovery has outlined a significant magnetic signature, a key indicator of mineralization in the Mid-Continental Rift ("MCR"), where the Disraeli PGE Project is located, in Ontario, Canada said [Palladium One Mining Inc.](#) (TSXV: PDM) (FSE: 7N11) (OTC Pink: NKORF) (the "Company" or "Palladium One") today. The magnetic survey ("Mag") outlined a large, reversely polarized, magnetic body coincident with AeroTEM electromagnetic ("EM") anomalies.

"Reversely polarized magnetic bodies are very important indicators of mineralization within the Mid-Continental Rift as demonstrated by nearby palladium-platinum-nickel-copper mineral deposits and mines, which are in part, reversely polarized. The target is high-grade PGE-rich nickel-copper mineralization located within magma conduits similar to Clean Air Metals Inc.'s Thunder Bay North ("TBN") and Escape Lake deposits." said Derrick Weyrauch, President and CEO.

"Disraeli's Hook Bay zone is clearly a more primitive portion of the greater Disraeli intrusion. The presence of airborne EM conductors coincident with a reversely polarized magnetic body, something that does not occur at TBN, suggests the potential for semi or even massive sulphides. Rare massive sulphide intercepts at TBN have returned impressive grades such 98 g/t PGE (52.8 g/t Pd, 41.5 g/t Pd, 3.9 g/t Au), 3.3% Ni, and 11.6% Cu over 2.6 meters in hole BL10-197 (see Magma Metals Limited News Release February 15, 2010). These grades reflect the very high metal tenor of the sulphides, which is the hallmark of the PGE-rich mineralization in the Nipigon Plate portion of the Mid-Continent Rift." commented Weyrauch.

An exploration drill permit has been received and the Company plans to drill Disraeli in February 2021, pending winter ice conditions.

Disraeli is located 40 kilometers north of Clean Air Metals Inc.'s TBN project and only 50 kilometers east from [Impala Platinum Holdings Ltd.](#)'s ("Implats") Lac Des Iles palladium Mine (Figure 1 and 2).

Figure 1. Illustration of Proterozoic Mid-Continent Rift and select associated copper-nickel-palladium-platinum deposits. The Eagle Mine operated by Lundin Mining hosts a Measured and Indicated Resource of 4.6 million tonnes grading 3.7% Ni, 3.1% Cu, 0.9 g/t Pt, 0.7 g/t Pd (2017 Lundin NI 43-101 report).

To view an enhanced version of Figure 1, please visit:  
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Figure 2. Illustrating the Nipigon Plate portion of the Proterozoic Mid-Continent Rift showing the West Nipigon Lineament which connects the Disraeli, Seagull and TBN intrusions. The Archean aged, Lac des Iles Palladium mine, located 50 kilometers west of Disraeli is also shown.

To view an enhanced version of Figure 2, please visit:

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#### Preliminary Analysis:

- The West Nipigon Lineament (Figure 2), is believed to be a control structure for the emplacement of the TBN ([Clean Air Metals Inc.](#)), Seagull (Quadro Resources Ltd.), and Disraeli intrusions and is prospective for additional magma conduits such as those found at TBN and Escape Lake.
- The high-resolution drone magnetic survey identified a very strong, reversely polarized magnetic body beneath the southeast bay (Hook Bay) of Disraeli Lake. (Figure 3 and 4).
- Reversely Polarized rocks are a key indicator for early mafic-ultramafic intrusives associated with PGE-Ni-Cu mineralization in the Mid-Continent Rift. Portions of the nearby TBN, Escape Lake, Sunday Lake (Implats), and Marathon (Generation Mining) deposits are also reversely polarized.
- The reversely polarized Hook Bay magnetic body is coincident with several AeroTEM EM anomalies that were outlined by a previous operator in 2011 and 2014 but were never drill tested (Figure 4 and 5).
- The presence of airborne AeroTEM EM anomalies suggest the possibility of not only disseminated mineralization but also semi massive or even massive sulphides.
- A lake sediment survey conducted in 2020 has shown a consistently greater ultramafic signature beneath Hook Bay compared to the rest of the Disraeli Lake. Ultramafic rocks were also observed along the western shore of Hook Bay. All of which point to this area being a much more primitive part of the Disraeli intrusion, and hence potentially close to the magma conduit which fed the intrusion.
- The Disraeli intrusion has seen much less exploration than adjacent intrusions in the Nipigon Plate, only 8 holes have been drilled on the property, and none have tested beneath Disraeli Lake. There is a precedent for magma conduits being located beneath lakes. Both TBN and Escape Lake magma conduits occur beneath the Current and Steepledge lakes, respectively.

#### Target Model:

- High-grade PGE-rich Ni-Cu mineralization located within magma conduits similar to [Clean Air Metals Inc.](#)'s Thunder Bay North and Escape Lake deposits.

Figure 3. 2011, 100-meter spaced AeroTEM survey, total magnetic field reduced to the pole (TMI-RTP) with 2014 Condor Geophysics interpretation highlighting the Disraeli ultramafic body (DLUB). Note the reversely polarised body in the southeast bay (Hook Bay) of Disraeli Lake. The Disraeli property boundary shown in red, 2020 detailed drone survey area outlined in yellow, and the Hook Bay reversely polarized body shown by dashed blue line.

To view an enhanced version of Figure 3, please visit:

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Figure 4. Image (A) is the 2020 drone based, 25-meter spaced survey, TMI-RTP mag, target DL-01 is the Hook Bay strongly magnetic reversely polarized body. Image (B) are EM anomaly picks and Maxwell plates models by Condor Consulting in 2014 from the 2011 AeroTEM survey. The background image is a 60-meter conductivity depth slice.

To view an enhanced version of Figure 4, please visit:

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Figure 5. Image (A) is an isometric view of the Hook Bay highly magnetic body looking north. Image (A) was generated by Abitibi Geophysics using VOXI Magnetization Vector Inversion technology (MVI) magnetic susceptibility model plotted as an isosurface using the 2020 drone magnetic survey data, MVI is considered a better technique for modelling overall magnetic susceptibility in areas like Disraeli where both positively and reversely polarized rocks occur. Image (B) is a cross section along Line A-B through the MVI magnetic susceptibility model looking north. Both images include Maxwell plate EM picks from Condor Consulting 2014 interpretation of the 2011 AeroTEM survey.

To view an enhanced version of Figure 5, please visit:

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#### Qualified Person

The technical information in this release has been reviewed and verified by Neil Pettigrew, M.Sc., P. Geo., Vice President of Exploration and a director of the Company and the Qualified Person as defined by National

Instrument 43-101.

About Palladium One

[Palladium One Mining Inc.](#) is an exploration company targeting district scale, platinum-group-element (PGE)-copper-nickel deposits in Finland and Canada. Its flagship project is the Läntinen Koillismaa or LK Project, a palladium-dominant platinum group element-copper-nickel project in north-central Finland, ranked by the Fraser Institute as one of the world's top countries for mineral exploration and development. Exploration at LK is focused on targeting disseminated sulfides along 38 kilometers of favorable basal contact and building on an established NI 43-101 open pit resource.

ON BEHALF OF THE BOARD

"Derrick Weyrauch"

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