

4 March 2025

Lady Grey Diamond Drilling Restarted

- **Diamond Drilling of the high priority Modelled MLEM Conductor Plate under EM Line #1 commenced**
- **MLEM Survey Line #1 target is aligned with a significant surface gold geochemical anomaly (256ppb Au) coincident with a regional structural zone favourable for hosting gold (ASX 24 Sept 2024)**
- **Historic Bounty Gold Mine which produced ~1.3 Moz Au¹ on Covalent Lithium's Mount Holland mine site, located adjacent to Lady Grey Gold Prospect**

Lanthanein Resources Limited (ASX: LNR) ("Lanthanein" or the "Company") is pleased to announce the commencement of diamond drilling at the Company's Lady Grey Project at Mt Holland in WA's Yilgarn. The drilling is to test a modelled conductor plate under Moving Loop EM (MLEM) Survey Line #1 (refer ASX release 24 September 2024). This first hole is to be drilled to a depth of approximately 325m with a second hole to be drilled on the same line approximately 200m to the east to a depth of approximately 350m.

Mr Brian Thomas, Technical Director of Lanthanein commented: "We are really very excited to finally get the diamond drill bit spinning again to test the high ranking modelled EM conductor plate under Line #1 which coincides with the 256 ppb Au UFF soil anomaly (ASX 22 April 2024). The approvals process for Line #1 has been rather protracted with the need the flora and fauna survey report with DEMIRS and the heritage survey by Ballardong Aboriginal Corporation and their heritage consultants to be completed first.

There were also significant delays with finalising the drilling of the plate under Line #6 with a bushfire in the Mt Holland at the end of January and early February causing disruption to drilling operations. We are grateful to Terra Drilling being able to step in on short notice to drill the final two diamond holes of the programme."

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Figure 1: Lady Grey Project tenement E77/2143 outline (yellow), MLEM Drill Lines (white) overlay on a Google Earth satellite photo image.

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Figure 2: Terra Drilling diamond drilling rig on site at Lady Grey Project Mt Holland

The modelled conductor plate under MLEM Line #1 is being drilled from the existing historical access and grid lines which have been refurbished. The modelled conductor plate is 114m below surface and dips to the east and is being drill tested with diamond drill holes as proposed in Figure 3.

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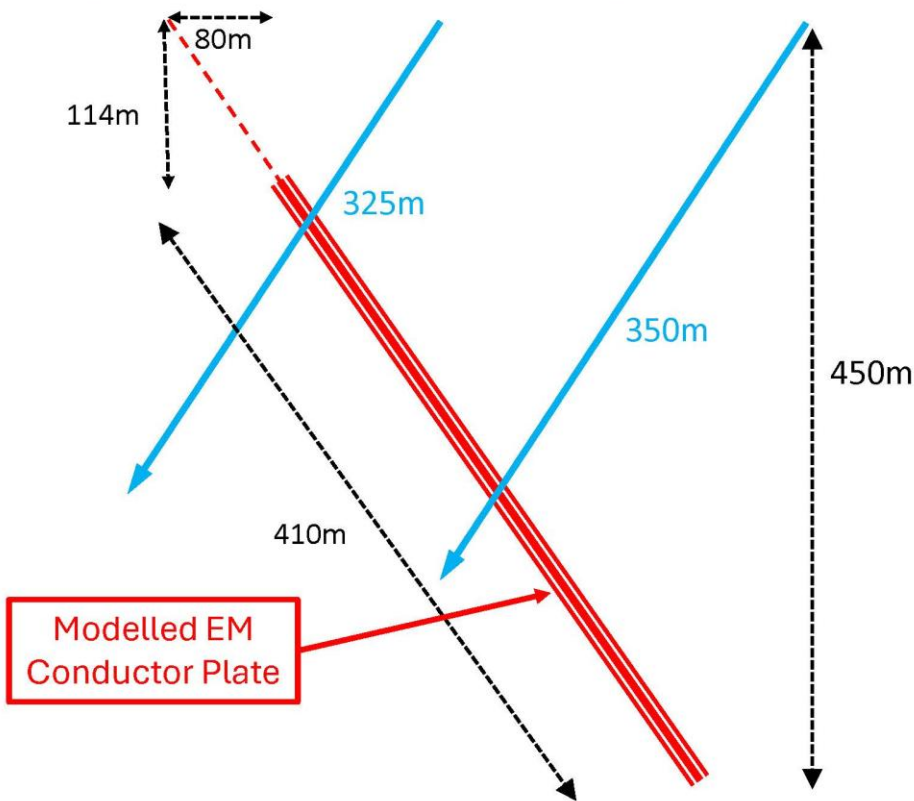


Figure 3: Modelled Conductor Plate (in Red) with Drill Holes Traces (in Blue) superimposed on Google Earth image and cross section below

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This announcement has been authorised for release by the Directors of the Company.

For additional information please visit our website at www.lanthanein.com

LANTHANEIN RESOURCES LTD

The information referred to in this announcement relates to the following source(s):

¹ source: <https://portergeo.com.au/index.asp>.

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This release includes exploration results the Company has previously reported 22 & 29 April, 15 May, 16 July and 24 September 2024. The Company confirms that it is not aware of any new information or data that materially affects the information included in previous announcements (as may be cross referenced in the body of this announcement) and that all material assumptions and technical parameters underpinning the exploration results continue to apply and have not materially changed.

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