

7 February 2025

Lady Grey Diamond Drilling Update

- **Diamond drilling of the Modelled MLEM Conductor Plate under EM Line #6 complete**
- **Conductor plate target is aligned with a surface gold geochemical anomaly 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**
- **PoW granted for drilling of MLEM Conductor Plate under Line #1 granted**

Lanthanein Resources Limited (ASX: LNR) ("Lanthanein" or the "Company") is pleased to announce the completion of the first stage of the diamond drilling at the Company's Lady Grey Project at Mt Holland in WA's Yilgarn. The drilling is testing the modelled conductor plate under Moving Loop EM (MLEM) Survey Line #6 (refer ASX release 24 September 2024). The drill core is currently being logged, cut and sampled with assay results expected to commence coming in during this quarter.

The Company is also pleased to announce that it has received approval from DEMIRS for the Programme of Work (PoW) for the drilling of the MLEM Conductor Plate under Line #1. Preparations are underway for the refurbishment of the access tracks, the drill line and the drill pads and sumps.

Mr Brian Thomas, Technical Director of Lanthanein commented: "We are really excited to finally finish the diamond tails testing the modelled EM conductor plate under Line #6 which coincides with a 75ppb UFF soil gold anomaly (ASX 22 April 2024). There have been a number of challenges to the drilling with the festive season break and more recently a bushfire on neighbouring ground interrupting the drilling. We are also pleased that DEMIRS have granted the PoW to enable drill testing of the much higher ranking EM conductor plate under Line #1 which coincides with the 256 ppb Au UFF soil anomaly (ASX 22 April 2024) with the planning for the refurbishing of the access tracks and old grid lines underway."

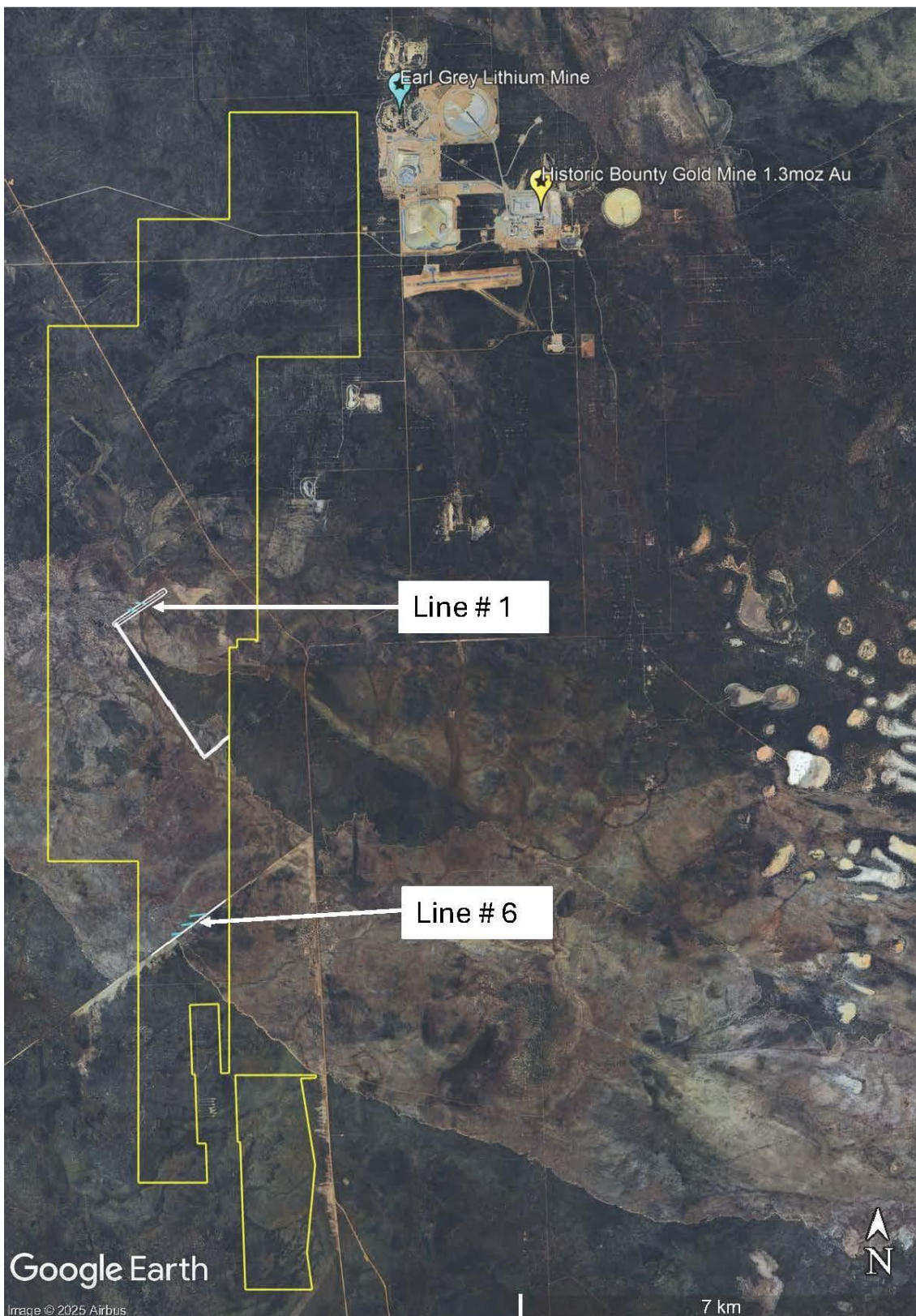


Figure 1: Lady Grey Project tenement E77/2143 outline (yellow), approved PoW Drill Line (white) and drill hole traces (blue), on Google Earth satellite photo image.

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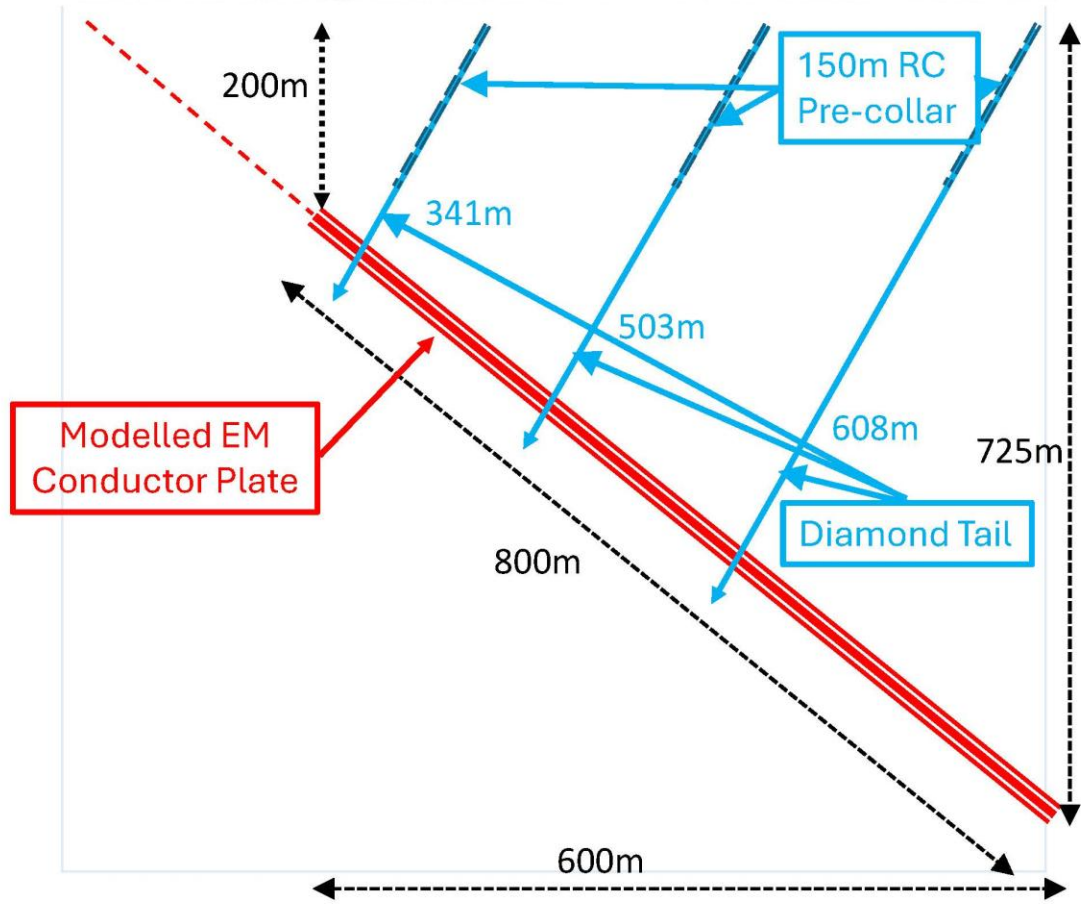


Figure 2: Modelled Conductor Plate (in Red) with Drill Hole Traces (in Blue) superimposed on Google Earth image and cross section below

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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 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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