

16 July 2024

## Exploration Update - Lady Grey

- **Comprehensive review of open file geophysical data plus acquisition of additional multi-client data now complete**
- **Additional data closing gaps in tenement coverage to be acquired by drone magnetics within the next few weeks**
- **Geophysical team on-ground this week conducting MLEM survey over priority Au and Cu targets highlighted by both geophysical and geochemical data**
- **Company primarily targeting the >2km long gold anomaly coincident with structural flexure plus copper and nickel targets**
- **Historic Bounty Gold Mine which produced ~1.3moz Au<sup>1</sup> on Covalent Lithium's Mount Holland mine site located adjacent to Lady Grey**
- **Programmes of Work (PoW) and Heritage approvals are progressing, targeting drilling Q3 2024**

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**Lanthanein Resources Limited (ASX: LNR)** ("Lanthanein" or the "Company") is pleased to announce the completion of the comprehensive review by Company consultants of all the open file and multi client magnetics data in combination with a review of historical open file geological data. Targets highlighted by the geophysics have been merged with the targets generated by the recently completed tenement-wide soil sampling programme at the Lady Grey Project ("Lady Grey").

Additional magnetics data will be acquired in the very near future with a drone magnetics programme to give complete coverage of the tenement with a narrow zone of stratigraphic interest on the eastern boundary having little or no high resolution magnetics coverage. A number of structural and magnetic targets that are coincident with the gold and copper targets generated by the geochemical survey will be tested by additional work using a Moving Loop Electromagnetic Survey (MLEM) with the geophysics crew mobilising to site this week.

***Mr Brian Thomas, Technical Director of Lanthanein commented: "We are very excited to have finalised the full review of all the current and historical geological, geophysical and geochemical data***

which has confirmed the presence of high priority gold and copper targets, particularly on a large regional structural flexure in the centre of the tenement which also coincides with the Godzilla geochemical lithium anomaly. The Forrestania region is also well known historically for its significant gold production with the old Bounty Mine producing ~1.3moz Au. We continue to press ahead with the approvals processes of PoWs and Heritage for drilling these targets in Q3 2024.”

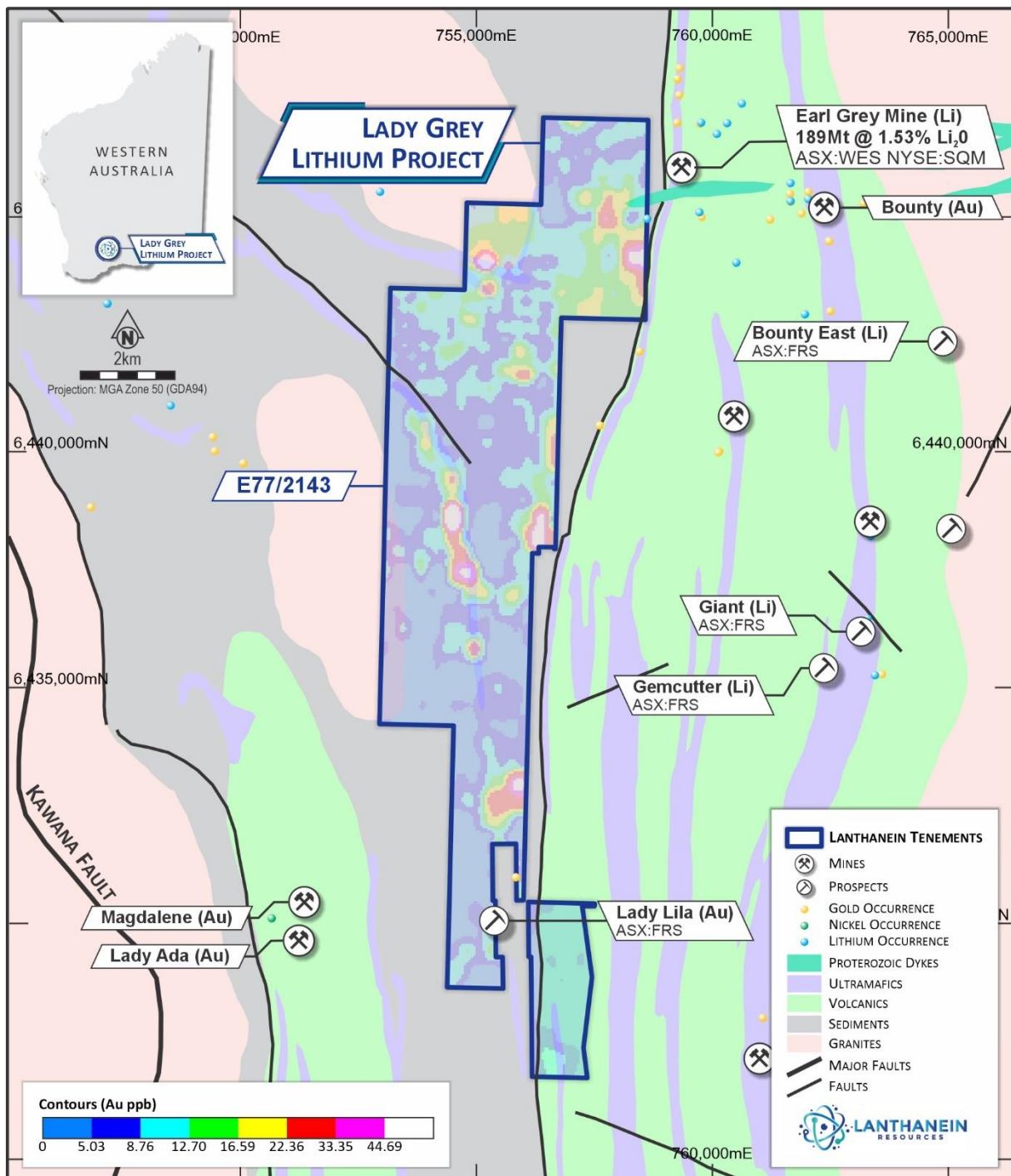


Figure 1: Gold Anomalies at the Lady Grey Lithium Project (refer ASX release 22 April 2024).

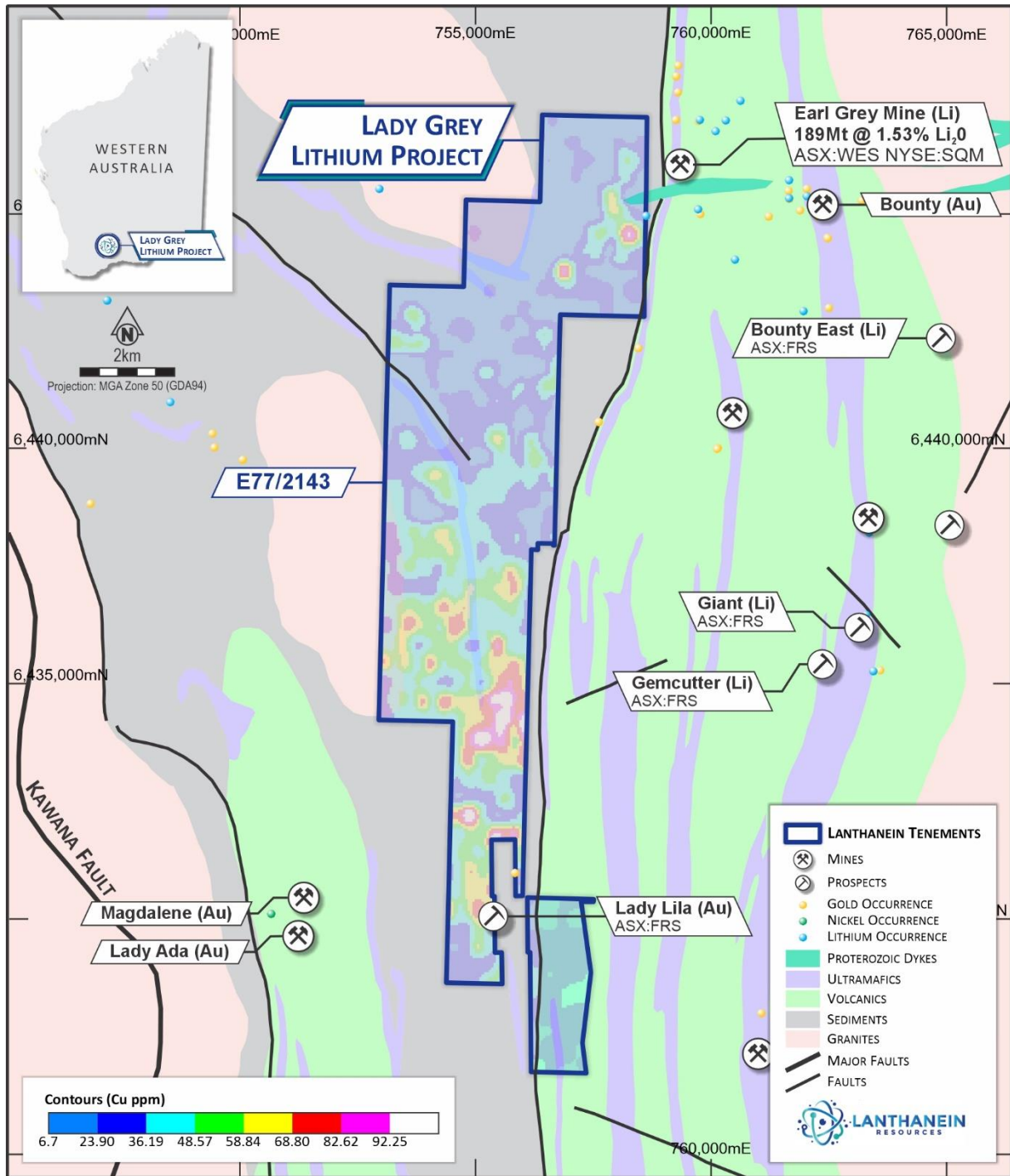


Figure 2: Copper Anomalies at the Lady Grey Lithium Project (refer ASX release 29 April 2024).

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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](http://www.lanthanein.com)

**LANTHANEIN RESOURCES LTD**

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

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

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This release includes exploration results the Company has previously reported 22 & 29 April 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.