

ASX Announcement

02 June 2023

DRILL CONTRACTOR MOBILISES TO DUNDAS FOR INAUGURAL 12,500M DRILL PROGRAM

Lightning Minerals (LIM or the Company) is pleased to report that drilling contractors Gyro Australia have begun mobilisation to its Dundas site to begin the Company's inaugural drill program on tenement E63/2001. Drilling is expected to start the week of 5th June 2023.

HIGHLIGHTS

- **Mobilisation of drilling team for drilling program targeting outcropping pegmatites and lithium in soil anomalies within tenement E63/2001¹**
- **2,500m of Reverse Circulation (RC) drilling and 10,000m of Aircore (AC) drilling on tenement E63/2001**
- **Represents a starting point for accelerated exploration program across the Dundas project to follow up multiple lithium in soil anomalies**

Lightning Minerals Chief Executive Officer Alex Biggs said, "It is with pleasure and excitement that we announce our inaugural drill campaign at Dundas. The past few months have been crucial in establishing target areas for drilling and I commend our team on a job well done in demonstrating multiple targets and opportunities as we accelerate our exploration. Drilling on E63/2001 is just the start with numerous other lithium targets to follow up across our Dundas tenements. We welcome our contractors to site and look forward to working together as we begin the journey of unlocking the potential that Dundas holds. Once again, I thank our shareholders and stakeholders for their support in Lightning Minerals and our team".

DRILLING STRATEGY FOR E63/2001

Drill program design has been completed for the Dundas South tenement E63/2001, with up to 2,500m Reverse Circulation (RC) and ~10,000m of Aircore (AC) now confirmed. Drill areas are shown in Figure 1.

Drilling will follow up a combination of recent priority targets identified through the mapping of outcropping pegmatites, geophysical reinterpretations, and lithium-rubidium in soil anomalism identified in the south-eastern corner of tenement E63/2001.

It is anticipated that RC component will be undertaken first to test the continuation of the three outcropping pegmatites at depth. If the outcrop is proven to continue the program intends to collect samples from depths between fifty and one hundred metres vertically from surface. This will provide a more representative sample from beneath the interpreted base of complete oxidation (BOCO). The continuation or orientation of the pegmatites is not yet known and as such there are no guarantees of success in the maiden drill campaign.

After the completion of the initial RC drilling the AC program will then commence in the south eastern corner of tenement E63/2001.

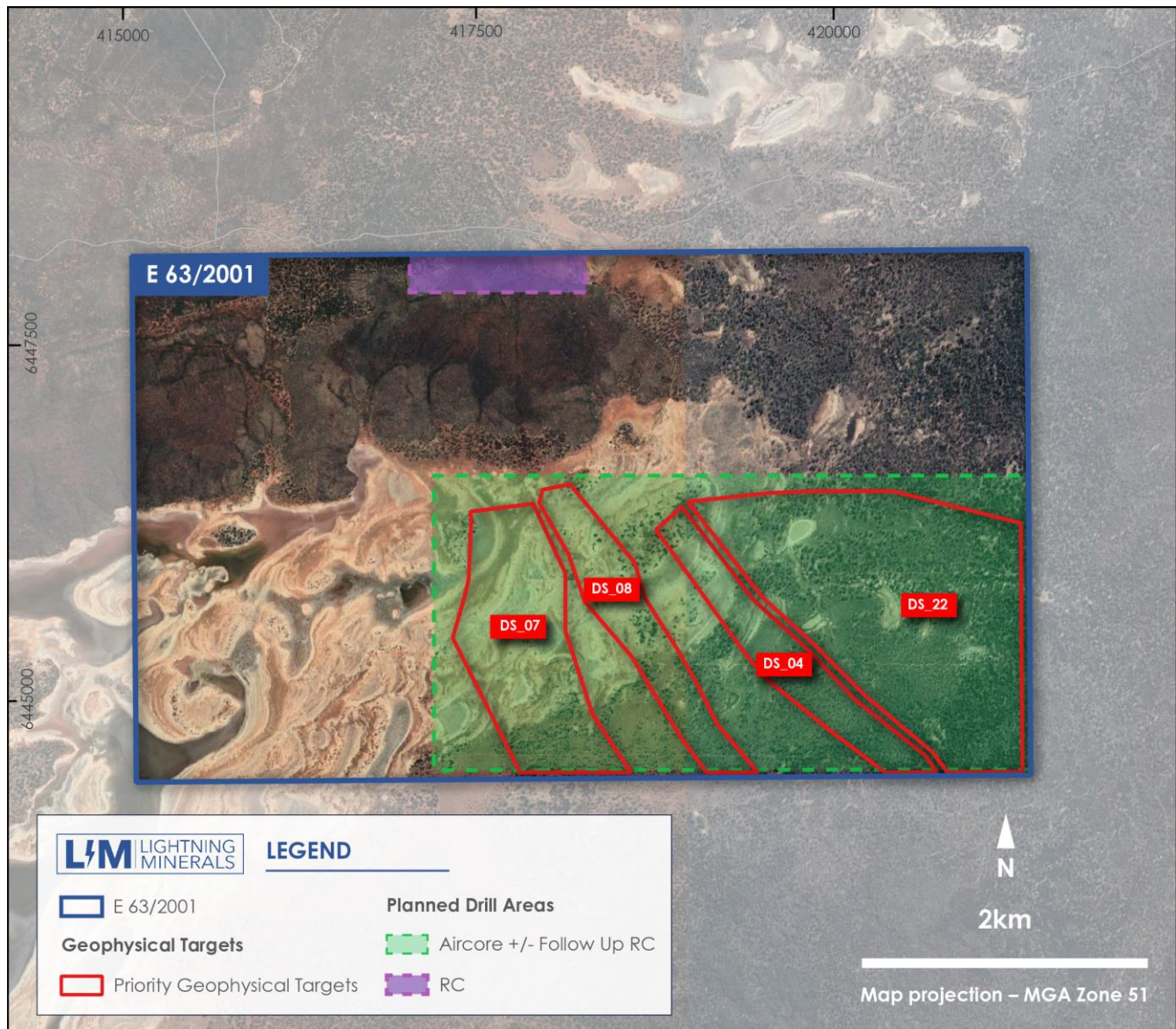
¹ASX Announcement 23 January 2023, ²ASX Announcement 09 February 2023

The Aircore program will target the lithium and rubidium anomalism previously reported¹ and the potential extensions of pegmatites present in the south of the tenement.

Composite samples will be taken through areas of saprolitic cover to help vector toward any pegmatites that are not intersected within the maiden AC program.

If pegmatites are intersected in the AC program, a follow up RC program will be considered as a priority to accelerate exploration progress within E63/2001. Adjustments to final collar locations are expected as the drill program develops and evolves in the field.

Figure 1: Planned Phase 1 drilling areas within tenement E63/2001 at the Dundas South Project



DUNDAS PROJECT ONGOING WORK PROGRAMS

With the Dundas reconnaissance soil sampling program now finalised, the Company's focus is now on the its inaugural drill program on tenement E63/2001 and follow up soil sampling works on tenements E63/2000 and E63/1993. The lithium anomalism within E63/2000 has been identified over a large 8km² area including a peak result of 218ppm Li (Figure 2 and ASX Announcement 23 March 2023). Drill program planning and permitting have already begun to facilitate potential future programs.

Additional infill sampling campaigns will now be reviewed at the Dundas North project area (Figure 3), following positive results including lithium in soil anomalism up to 147ppm Li and three large lithium target areas identified, the largest being 35km² (ASX Announcement 01 May 2023).

A comprehensive targeting exercise using the results of the reconnaissance sampling program will now be undertaken to extract maximum value from the 62 element suite of analytes provided by the UFF+ analytical technique. The review will include all applicable prospective commodities for the Dundas Projects including lithium, rare earth elements (REE), gold, copper, nickel, and platinum group elements (PGE).

Figure 2: Lithium in soil geochemical results within E63/2000 and E63/1993, shown on Analytic Signal Total Magnetic Intensity geophysical image

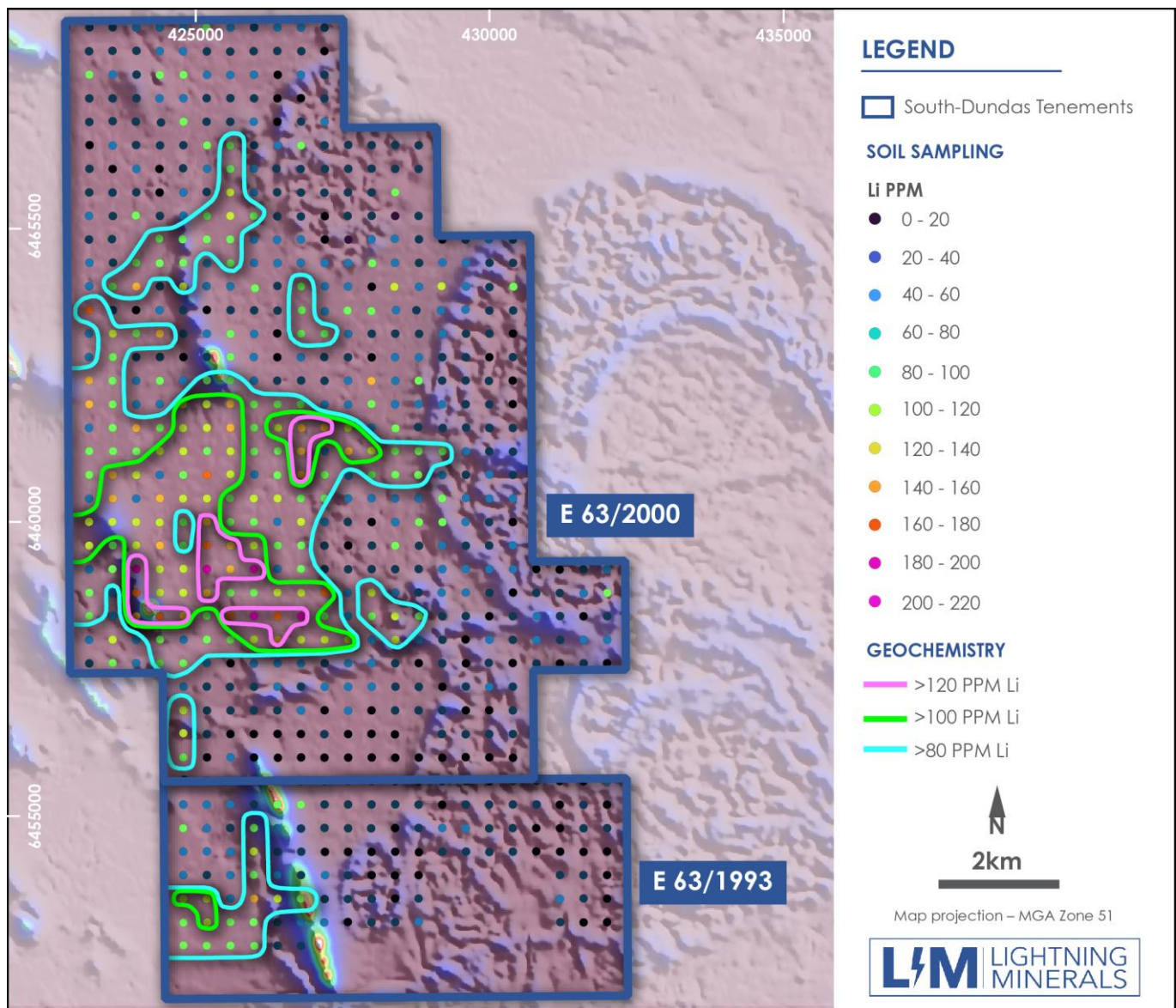
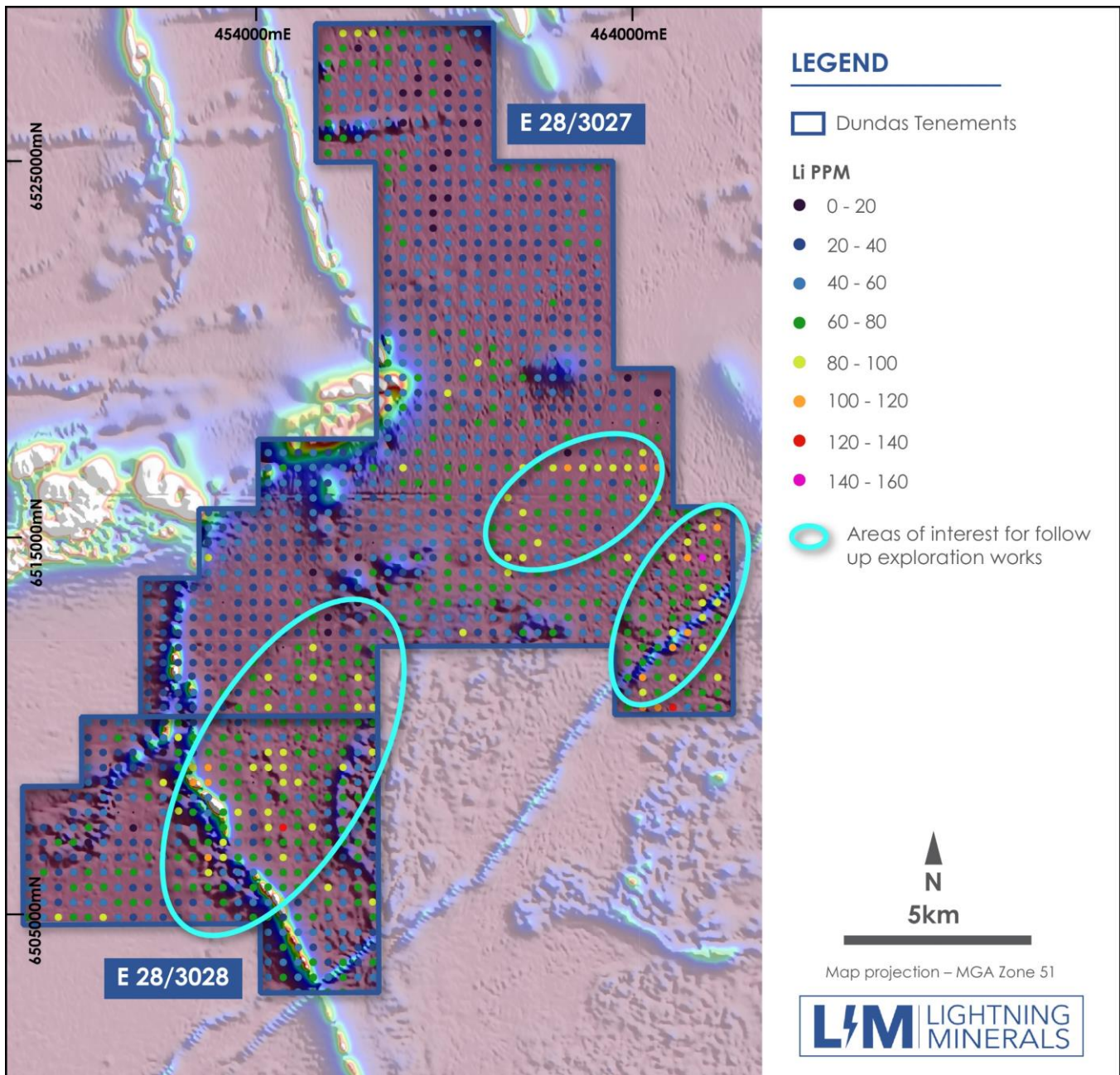


Figure 3: Dundas North tenure showing returned UFF+ lithium soil geochemistry results



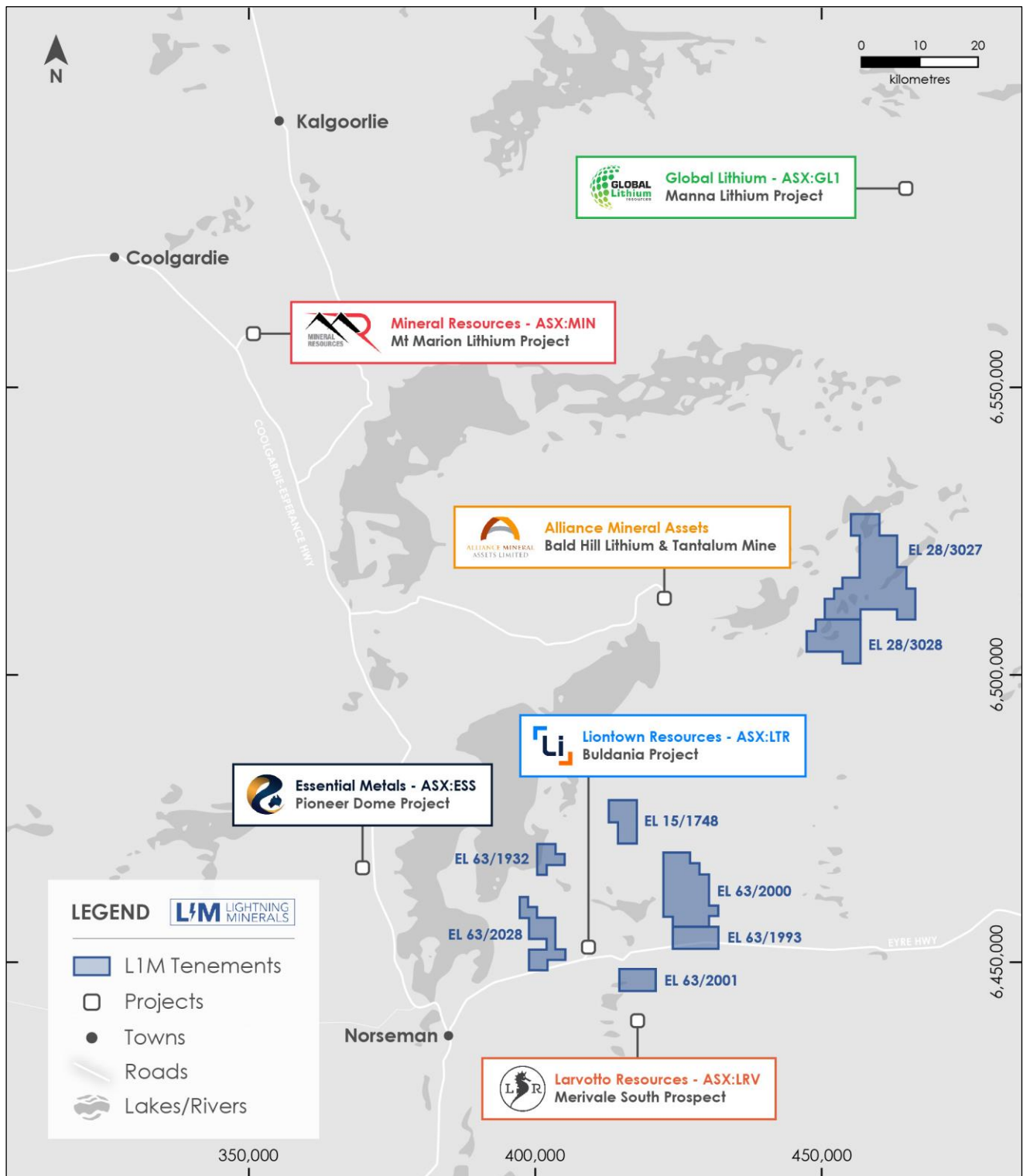
DUNDAS PROJECT (LIGHTNING MINERALS 100%)

The Dundas Project area is located near Norseman in Western Australia and comprises eight tenements totalling approximately 454km². Norseman has a strong history of mining dating back to 1892 and is located 190km south of Kalgoorlie. Historically, Norseman and the Dundas area has experienced mining in gold and nickel although over recent years the region has become an emerging lithium and critical minerals province with multiple discoveries and significant exploration activity.

There are two project areas at Dundas:

- South/western tenements surrounding Liontown Resources' Buldania/Anna lithium project, and,
- North/eastern tenements approximately 30km to the east of Alliance Mineral Assets' Bald Hill lithium-tantalum mine.

Figure 4: Location of Lightning Minerals' Dundas Projects



**This announcement has been approved for release by the Board of Directors.
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ABOUT LIGHTNING MINERALS

Lightning Minerals is a mineral exploration company, listed on the Australian Stock Exchange (ASX:LIM) and focused on the exploration of critical minerals and lithium at its tenements across Western Australia. The Company's flagship Dundas project is located in the prolific Dundas region of Western Australia. The Company also has other projects in Western Australia, Mt Jewell, Mt Bartle and Mailman Hill prospective for base metals and critical minerals.

FORWARD LOOKING STATEMENTS

Information included in this release constitutes forward-looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward-looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue", and "guidance", or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licences and permits and diminishing quantities or grades of reserves, political and social risks, changes to the regulatory framework within which the Company operates or may in the future operate, environmental conditions including extreme weather conditions, recruitment and retention of personnel, industrial relations issues and litigation.

Forward looking statements are based on the Company and its management's good faith assumptions relating to the financial, market, regulatory and other relevant environments that will exist and affect the Company's business and operations in the future. The Company does not give any assurance that the assumptions on which forward looking statements are based will prove to be correct, or that the Company's business or operations will not be affected in any material manner by these or other factors not foreseen or foreseeable by the Company or management or beyond the Company's control.

Although the Company attempts and has attempted to identify factors that would cause actual actions, events or results to differ materially from those disclosed in forward looking statements, there may be other factors that could cause actual results, performance, achievements or events not to be as anticipated, estimated or intended, and many events are beyond the reasonable control of the Company. Accordingly, readers are cautioned not to place undue reliance on forward looking statements. Forward looking statements in these materials speak only at the date of issue. Subject to any continuing obligations under applicable law or any relevant stock exchange listing rules, in providing this information the Company does not undertake any obligation to publicly update or revise any of the forward-looking statements or to advise of any change in events, conditions or circumstances on which any such statement is based.

REFERENCES TO PREVIOUS ANNOUNCEMENTS

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements, and that all material assumptions and technical parameters have not materially changed. The Company also confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.