

ASX ANNOUNCEMENT

1 October 2021

## **Kairos substantially expands Pilbara exploration footprint with new strategic licence applications**

*New Exploration Licence Applications covering 479.2 km<sup>2</sup> are prospective for lithium-caesium-tantalum ('LCT') pegmatites and intrusion-related gold mineralisation*

### **Highlights**

- **Kairos' technical team has identified and secured a strategic Project via new applications in the Pilbara district of Western Australia.**
- **New acquisition increases the size of Kairos' tenure in the Pilbara by 30% to 2,026km<sup>2</sup>.**
- **The Rocklea Project Licences include granitic rocks of the Sisters Supersuite intrusion and volcanic rocks of the Warrawoona Group.**
- **A new Exploration Licence Application has been added to the Lalla Rookh Project, located next to the Lalla Rookh historic gold mine.**
- **The Exploration Licences covering the Rocklea and Lalla Rookh Projects are prospective for both Hemi-style, intrusive-related gold discoveries and lithium-caesium-tantalum ('LCT') pegmatite discoveries.**
- **Kairos is planning an airborne magnetic and radiometric survey for both project areas.**

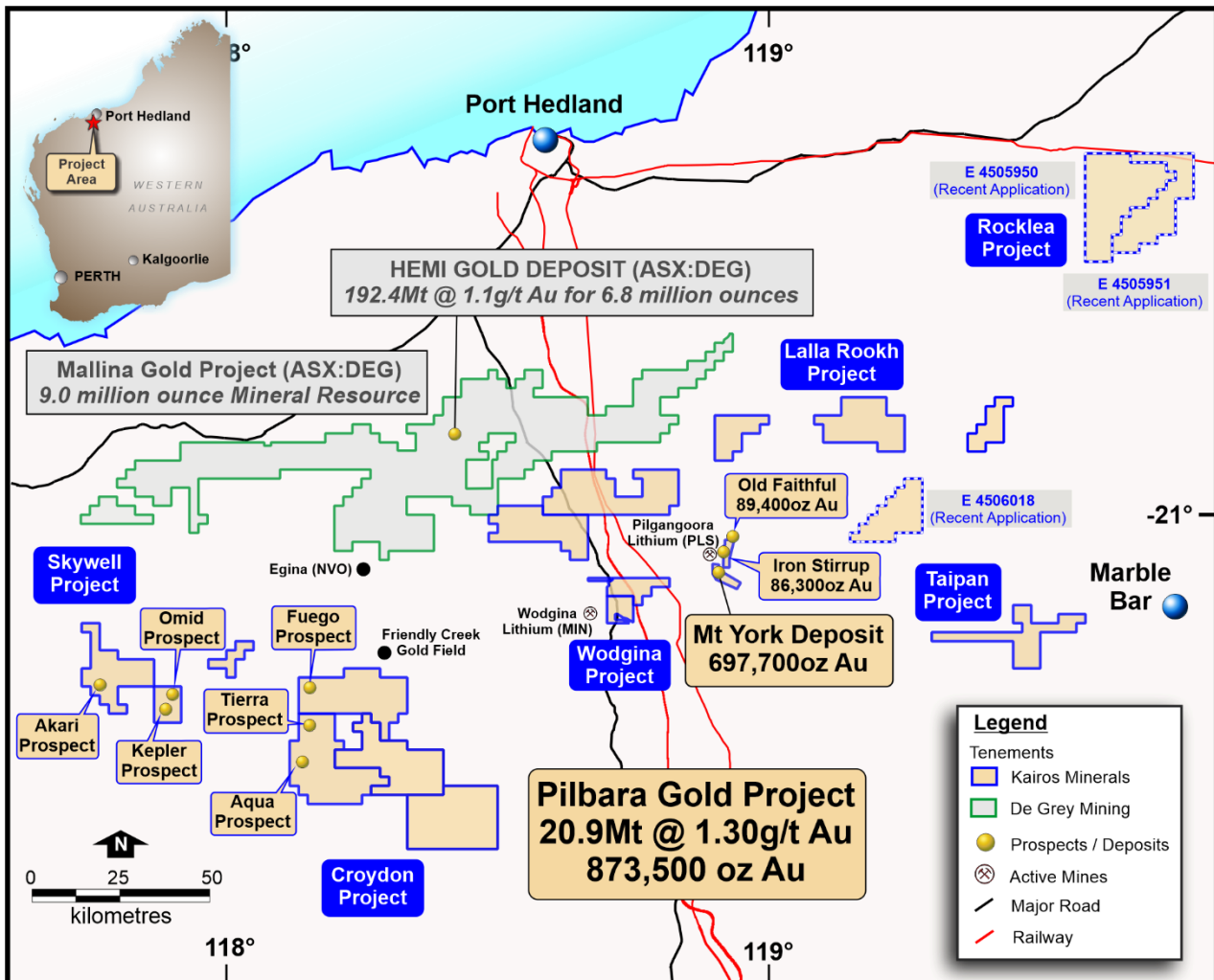
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Kairos' Executive Chairman, Terry Topping, said: *"This is an exciting addition to our Pilbara Gold Project, which already encompasses a very large and strategic footprint in this Tier-1 mining and exploration district.*

*"The new licence applications will increase our overall ground-holdings by 30% to over 2,000 square kilometres, making us one of the largest land-holders in the central and east Pilbara with ground situated across a number of important strategic geological structures.*

*"The new Exploration Licences covering the Rocklea and Lalla Rookh Projects are highly prospective for both Hemi-style, intrusive-related gold discoveries and LCT-style pegmatite lithium discoveries.*

*"This is another demonstration of our commitment as a long-term strategic explorer in the Pilbara region and further strengthens our deep pipeline of exploration opportunities. We look forward to the commencement of initial exploration activities including an airborne magnetic and radiometric survey."*



**Figure 1: Location of the new applications E45/5960 and E45/5961 (Rocklea Project) and E45/6018 (Lalla Rookh Project).**

Kairos Minerals Ltd (ASX: KAI; “Kairos” or “the Company”) is pleased to advise that it has further expanded its 100%-owned **Pilbara Gold Project** in Western Australia after securing a strategic tenement package that is prospective for both intrusive-related gold and lithium discoveries.

The newly named Rocklea Project comprises two new Exploration Licence Applications (E45/5960 and E45/5961), and one new Exploration Licence Application (E45/6018) was added to the existing Lalla Rookh project.

### **Rocklea Project (E45/5960 and E45/5961)**

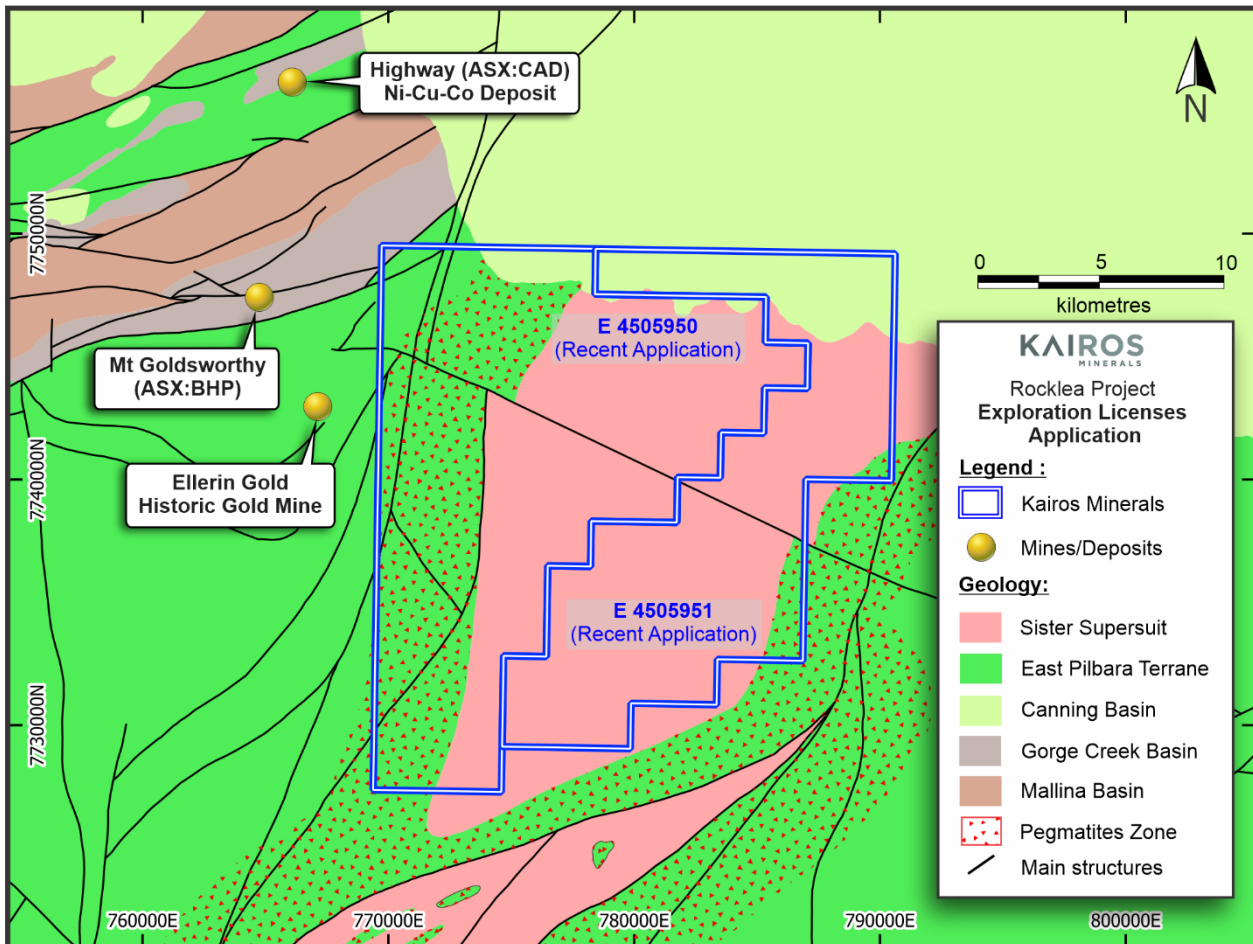
The two Exploration Licence Applications cover mainly the granitic rocks of the Sisters Supersuite intrusion, which is displaced by a significant northwest-southeast fault zone. The Sister Supersuite rocks intrude older Archaean units and are prospective for LCT pegmatites and intrusion-related gold mineralisation.

Figure 2 shows a 4km buffer zone around the interpreted margin of the intrusion.

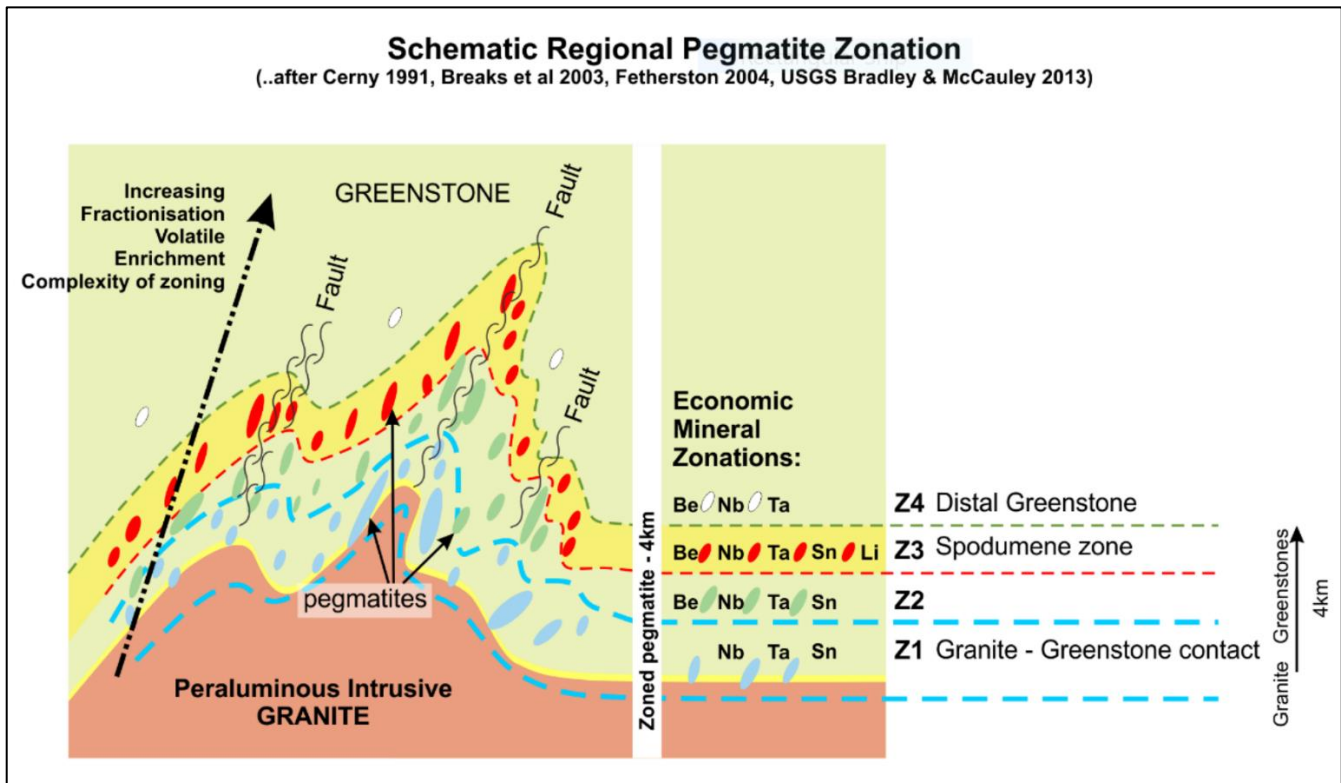
Figure 3 presents a schematic illustration of mineral zonation within Complex Rare Element Lithium-Caesium-Tantalum (LCT) Pegmatites demonstrating the spatial relationship between tantalum rich and lithium-rich phases at a regional scale.

In the north-west portion of the project area, volcanic rocks of the Warrawoona Group and BIFs from the Clearverville Formation are mapped by GSWA. These units host the Highway Nickel-Copper-Cobalt project (ASX:CAE) and the Mt Goldsworthy Iron Ore project (ASX:BHP), located Northwest and West of the project area, respectively. Previous exploration on these licence areas has been minimal.

The two new applications cover a total area of 376.6km<sup>2</sup>.



**Figure 2: The Rocklea project tenements and prospective zone for LCT pegmatites.**

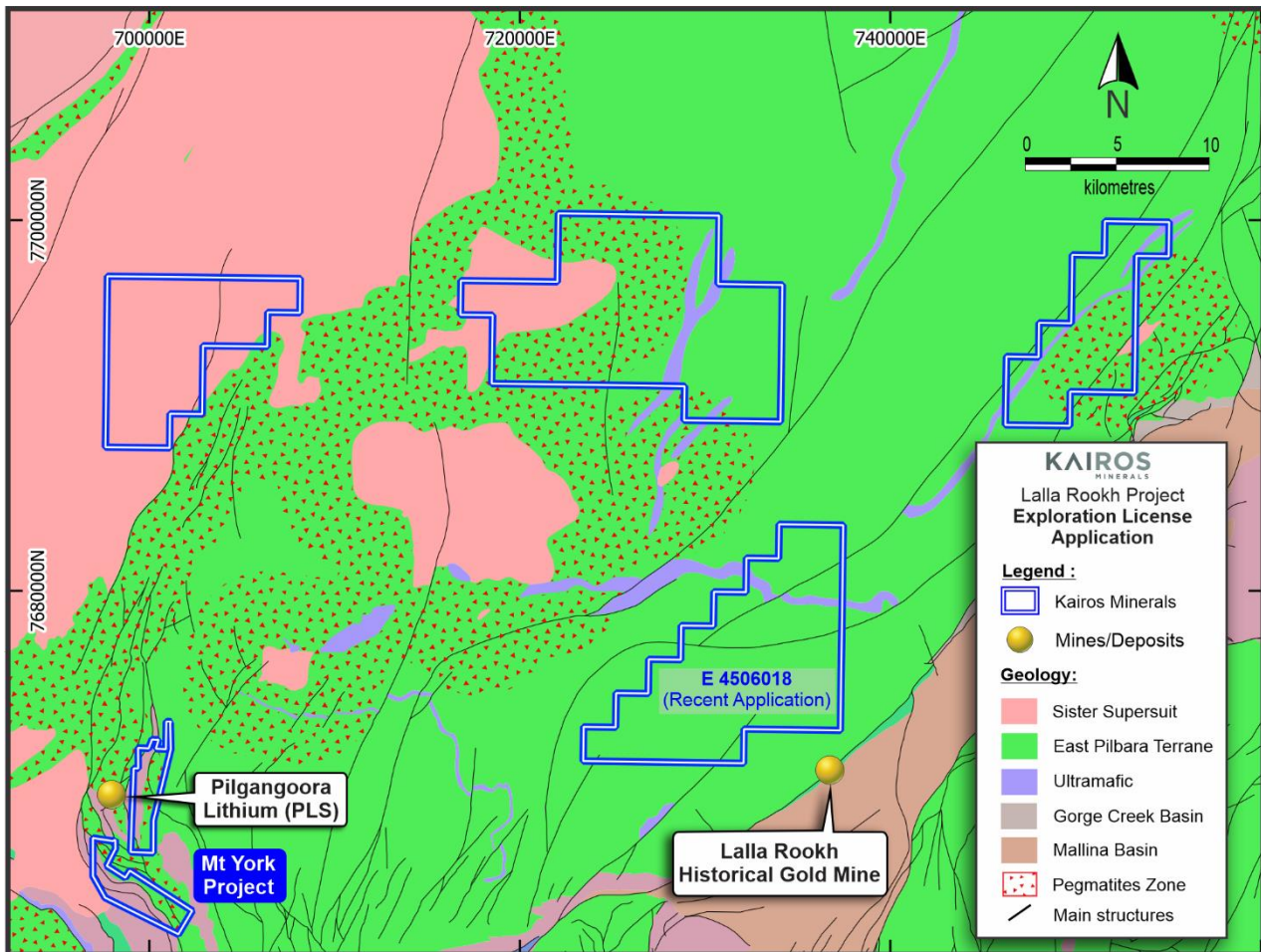


**Figure 3: Schematic illustration of mineral zonation within Complex Rare Element Lithium-Caesium-Tantalum (LCT) Pegmatites (Cerny 1991, Breaks et al 2003, Fetherston 2004, USGS Bradley & McCauley 2013).**

### Lalla Rookh Project (E45/6018)

This Exploration Licence Application covers the paleoarchaeon rocks of the Cleland and Callina supersuites primarily. Ultramafic rocks are mapped within the E45/6018 and are prospective for gold and base metals mineralisation. The Lalla Rookh historic gold mine sits approximately 2km south of the new tenement area.

The other three tenements of the Lalla Rookh project host rocks of the Sisters Supersuite and Split Rock Supersuite intrusions and are prospective for both LCT pegmatites and intrusion-related gold mineralisation. A 4km buffer zone was created around these most recent intrusions to prioritise the next phase of LCT pegmatite exploration.



**Figure 4: The Lalla Rookh project tenements and the prospective zone for LCT pegmatites.**

## Next Steps

- Airborne Magnetic and Radiometric survey over the new exploration license applications.
- Next-phase RC drilling program at Mt York project.
- Geochemistry sampling results from Mt York, Wodgina, Kangan, Skywell and Croydon Projects.
- Additional heritage surveys at Mt York, Kangan and Skywell Projects.
- Assay results from the Mt York RC drilling.
- Assay results from the Kangan AC drilling.

## About Kairos Minerals

Kairos Minerals (ASX: KAI) is a diversified West Australian-based exploration company which is focused on the exploration and development of two key project hubs located in WA's premier mining districts.

The Company's 100%-owned Pilbara Gold-Project has its central "hub" located ~100km south of Port Hedland in the world-class Pilgangoora district immediately adjacent to the major lithium-tantalum projects owned by Pilbara Minerals, which is currently in production.

Since acquiring the Project in early 2016, Kairos has established a JORC Indicated 8.56Mt at 1.3 g/t for 366,000oz and Inferred 12.36Mt at 1.28 g/t for 507,000oz for a Total Mineral Resource of 20.93Mt @ 1.3g/t Au for 873,500oz (ASX announcement, 4 March 2020). The Project encompasses the historical Lynas Find gold project, which produced over 125,000oz of gold between 1994 and 1998.

Kairos's 100%-owned Roe Hills Project, located 120km east of Kalgoorlie in WA's Eastern Goldfields, comprises an extensive tenement portfolio where the Company's recent exploration work has confirmed the potential for significant discoveries of high-grade gold, nickel and cobalt mineralisation. Kairos' tenure adjoins the emerging Lake Roe gold discovery, owned by Breaker Resources (ASX: BRB).

In the Pilbara, Kairos also holds 2,026 square kilometres of tenure (granted and applications) which is highly prospective for gold and lithium-caesium-tantalum pegmatite discoveries.

Kairos has been well recognised for its industry leading technical team that includes its Chairman Terry Topping (Taipan Resources NL, Cauldron Energy Ltd), Technical Director Neil Hutchison (Poseidon Nickel, Jubilee Mines) and consulting specialists.

With the authority of the Board.

**For further information, please contact:**

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**COMPETENT PERSON STATEMENT:**

*Competent Person: The information in this report that relates to Exploration Results or Mineral Resources is based on information compiled and reviewed by Mr Terry Topping, who is a Director of Kairos Minerals Ltd and who is also a Member of AusIMM. Mr Topping has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.' (the JORC Code 2012). Mr Topping has consented to the inclusion in the report of the matters based on their information in the form and context in which it appears.*

*The Australian Securities Exchange has not reviewed and does not accept responsibility for the accuracy or adequacy of this release.*