

ASX ANNOUNCEMENT

16th October 2017

## KAIROS EXPANDS PILBARA CONGLOMERATE GOLD PROGRAM

*Highly experienced former Novo Resources Exploration Manager George Merhi engaged to oversee helicopter-supported exploration program at Croydon Project*

### Highlights

- **Three high-priority target areas identified at the Croydon Project within a 22km strike length of prospective contact between the basal Mount Roe Basalt and Archaean basement – the same stratigraphic position which hosts other recent high-profile Pilbara gold discoveries.**
- **Helicopter-supported exploration program to commence this week to facilitate a program of detailed mapping, rock chip sampling, soil sampling and metal detecting over these areas.**
- **Highly experienced consulting exploration geologist, George Merhi, engaged by Kairos to oversee this expanded program. Mr Merhi has extensive experience of Witwatersrand-style gold exploration through the Pilbara, having previously worked as Exploration Manager for Novo Resources (TSX-V: NVO) and the Creasy Group.**
- **The helicopter-supported program is in addition to the ongoing field program which commenced last week, with a field team currently undertaking quad bike assisted soil and stream sediment sampling and prospecting across the Company's broader tenement portfolio.**
- **Kairos's tenements contain a total of ~100km strike length of highly prospective lower Fortescue Group Rocks adjacent to the Mount Roe Basalt.**

Kairos Minerals Ltd (ASX: KAI; "Kairos" or "the Company") is pleased to advise that it is set to significantly expand its current field exploration program targeting the conglomerate-hosted gold potential of its Pilbara lithium-gold tenement portfolio in WA (Figure 1) after identifying new high-priority target areas at the Croydon Project.

The new areas were identified by the Company's exploration team with the assistance and input of highly experienced consulting exploration geologist, George Merhi, who has been contributing his vast experience of exploration for Witwatersrand-style gold in the Pilbara to Kairos' exploration effort.

Mr Merhi has been engaged by Kairos on a consulting basis to oversee the expanded exploration initiative, which will comprise a helicopter-assisted program to facilitate access to the new areas for detailed mapping, rock chip sampling, soil sampling and metal detecting.

The new helicopter-assisted program will expand the existing field program which commenced last week with a team of geologists, field assistants and prospectors currently undertaking a quad-bike assisted soil/stream sediment sampling program across the broader tenement package in conjunction with targeted, prospector-assisted programs.

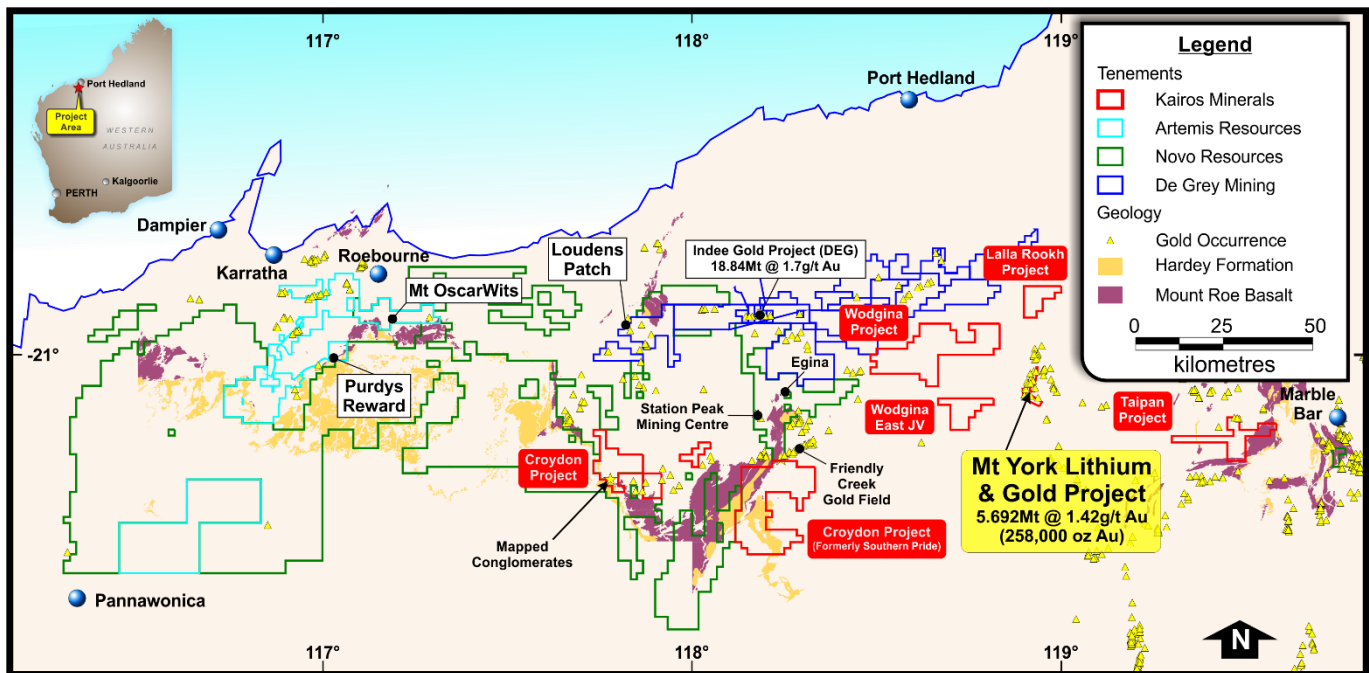
Mr Merhi will travel to the Pilbara this week to oversee logistics and preparations for the new program.

His extensive experience of conglomerate-hosted gold exploration in the Pilbara stems from his previous role as Exploration Geologist and Exploration Manager for Novo Resources between 2011 and 2015.

Prior to that, he spent 17 years with the Creasy Group, including having responsibility for the day-to-day running of the entire Creasy Group tenement package throughout the Pilbara region.

## New Target Areas – Croydon Prospect

Kairos holds 1,158 square kilometres of tenure in Pilbara region (Figure 1), and has recently confirmed the presence of at least ~100 strike kilometres of prospective lower Fortescue Group rocks including both the base of the Hardey Formation and the basal sequence of the Mount Roe Basalt – the stratigraphic position which is described as being the key to recent high-profile gold discoveries in the region.



**Figure 1. Prospective regional geology and tenure, Pilbara region**

Kairos' initial exploration program has been focused initially on the North West portion of the Croydon Project, where the Company has mapped thick sequences of the targeted lower Fortescue Group including the Mount Roe Basalt in close proximity to the historical alluvial gold mining centre of Croydon.

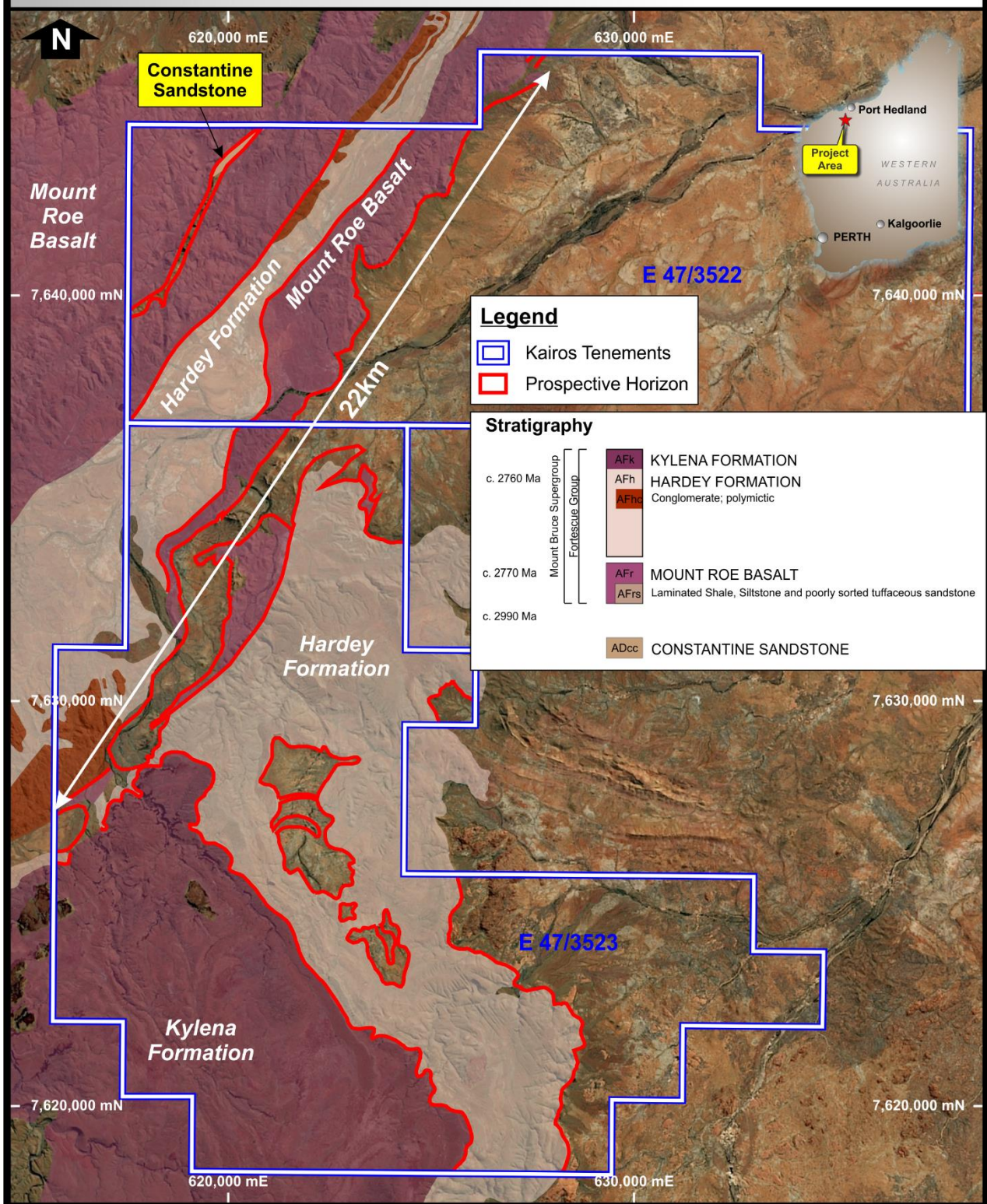
A further review of this project area undertaken by the Company's exploration team with assistance and input from Mr Merhi has resulted in the identification of three more remote but higher priority target areas within E47/3522 (Figure 2). These target areas are located within a 22km strike length of prospective contact between the basal Mount Roe Basalt and the older Archaean basement sequence.

Mapping by the GSWA has also identified potentially auriferous conglomerate units of the Constantine Sandstone, which is part of the De Grey Group with an age of c 2990 Ma – which is much older than the sedimentary units associated with the Mount Roe Basalt at c 2770 Ma.

This is a very large target area and, due to its remoteness, a helicopter-supported program is required to facilitate access to the main target horizon for detailed mapping, rock chip sampling and metal detecting.



# Croydon Project



**Figure 2. Croydon Project – prospective horizons**





**Figure 3. Conglomerate outcrops within the northern portion of E47/3522**



**Figure 4. Mapped conglomerate within E47/3522**

**ENDS**

## **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 100%-owned Mt York Gold-Lithium Project is located ~100km south of Port Hedland in the world-class Pilgangoora district. Since acquiring the project in early 2016, Kairos has rapidly established a 258,000oz JORC 2012 compliant Mineral Resource inventory at Mt York by re-evaluating the known resources from the historical Lynas Find gold mine, which produced over 125,000oz between 1994 and 1998.

The 100%-owned Roe Hills Project, located 120km east of Kalgoorlie in WA's Eastern Goldfields, comprises an extensive tenement portfolio which is highly prospective for gold, nickel and cobalt discoveries. Kairos' tenure adjoins the emerging Lake Roe gold discovery, owned by Breaker Resources (ASX: BRB).

Kairos has completed maiden drilling programs across both projects over the past 12 months, delivering impressive results which have highlighted the significant potential of both projects to deliver significant new discoveries and host economic mineral deposits.

In the Pilbara, Kairos also holds 1,158 square kilometres of tenure which is highly prospective for conglomerate-hosted gold discoveries. The Company's portfolio includes ~100 strike kilometres of prospective lower Fortescue Group rocks including both the base of the Hardey Formation and the basal sequence of the Mount Roe Basalt. Major exploration programs are underway targeting these highly prospective stratigraphic horizons, which have been associated with a number of recent high-profile gold discoveries in the Pilbara.

Kairos has been well recognised for its industry leading technical team that includes its Chairman Terry Topping (Taipan Resources NL, Cauldron Energy Ltd and Orinoco Gold Ltd), Technical Director Neil Hutchison (Poseidon Nickel, Jubilee Mines, Technical Manager Steve Vallance (WMC, ACM, Jubilee Mines, Xstrata, Kagara, LionOre), and consulting specialists Dr Robin Hill, Sarah Dowling, Dr Nigel Brand, Adrian Black and Bill Amman.

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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 Steve Vallance, who is the Technical Manager for Kairos Minerals Ltd and who is a Member of The Australian Institute of Geoscientists. The information was also reviewed by Mr Terry Topping, who is a Director of Kairos Minerals Ltd and who is also a Member of AusIMM. Both Mr Vallance and Mr Topping have 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 Vallance and Mr Topping have 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.*