

## 144 METRE GRAPHITE INTERSECTION AT KEY TANZANIAN PROJECT

### HIGHLIGHTS

- RC drilling at the Mahenge graphite project has intersected high grade graphite mineralisation in every hole.
- Initial RC holes at Ndololo prospect confirm historical widths over greater strike length than previously reported.
- Downhole intersections have recorded up to 144 metres of graphite mineralisation at Ndololo prospect.
- Mineralogy shows massive flake graphite greater than 2,000 micron (+2mm) with final metallurgical report expected in 2 weeks.

**Kibaran Resources Limited** (ASX: KNL) is pleased to provide an update on its inaugural reverse circulation (“RC”) drilling programme at its Mahenge graphite project in Tanzania. The Mahenge project hosts the Ndololo, Kasita and Epanko graphite prospects. The Company is pleased to advise it has completed the first stage of its RC drilling exploration campaign, totalling 11 holes for 955 metres at the Ndololo and Kasita prospects.

The first four RC holes at Ndololo prospect have intersected graphite over significant widths with up to 144 metres being recorded and three holes ending in graphite. The intersections seen at Mahenge have not only confirmed historically reported widths but more importantly, the intersections of graphite mineralisation have occurred over a greater strike length than reported in the historical 1945 exploration report.

Kibaran Resources Chairman, Simon O'Loughlin said, “We are extremely pleased with the initial results from our RC drilling campaign at Mahenge, with results exceeding expectations set by previously recorded historical reports at the highly prospective graphite project.

“We already have evidence of high grade total graphitic carbon (“TGC”) at Ndololo, and these additional great results from RC drilling have confirmed the extent of the prolific graphite mineralisation.

“With such strong results coming from our two prospects, this is very encouraging as the RC drilling campaign continues. We have also expanded the programme to include a third at Mahenge, the Epanko prospect.”



**Figure 1:** Site geological record at MHR008, showing the residual drill spoil. Each spoil pile represents one metre.

**Table 1: RC Intersections at Mahenge Graphite Project**

Hole_ID	Prospect	Dip	Azi	Hole Depth (m)	Graphite Mineralisation		
					From (m)	To (m)	Interval (m)
MHRC_011	Ndololo	-60	325	179	27	171	144
MHRC_010	Ndololo	-60	325	105*	23	105	82
MHRC_009	Ndololo	-60	325	80*	14	80	66
MHRC_008	Ndololo	-60	325	80*	8	80	72
MHRC_007	Kasita	-60	270	70	0	35	35
MHRC_006	Kasita	-60	270	80	35	60	25
MHRC_005	Kasita	-60	270	50	2	27	25
MHRC_004	Kasita	-60	270	51	2	22	20
MHRC_003	Kasita	-90	270	50	3	10	7
MHRC_002	Kasita	-60	270	140	20	52	32
MHRC_001	Kasita	-90	360	70	31	55	24

**Note:** \*Hole ended in graphite mineralisation. All drill intersections are stated as downhole lengths, true width not yet determined.

Importantly, drill hole MHRC011 demonstrates the potential width of the graphite occurrence, as the hole was collared 50 metres to the east on the same section line and underneath hole MHRC008. Drill hole MHRC011 intersected 144 metres of graphite mineralisation and has demonstrated the thickness of the graphite schist at the Ndololo prospect.



**Figure 2:** Chip Tray Record at MHRC008 , depth from surface to 40 metres.

Graphite mineralisation is based on geological logging with total graphitic carbon analysis of individual metres to be carried out at the SGS laboratory. Assay results from this first stage of RC drilling is expected in four weeks.



**Figure 3:** Chip Tray Record MHRC008, depth from 40 to 80 metres.



**Figure 4:** Chip Tray Record MHRC011, depth from 40 to 80 metres.

A total of seven holes have been drilled at the Kasita prospect, which is located 30km to the south east of Ndololo graphite prospect. The down-hole intersections have averaged 24 metres, boosted by high concentrations of graphite which have been geologically logged. Further drilling is required at Kasita and promisingly mineralisation remains open.

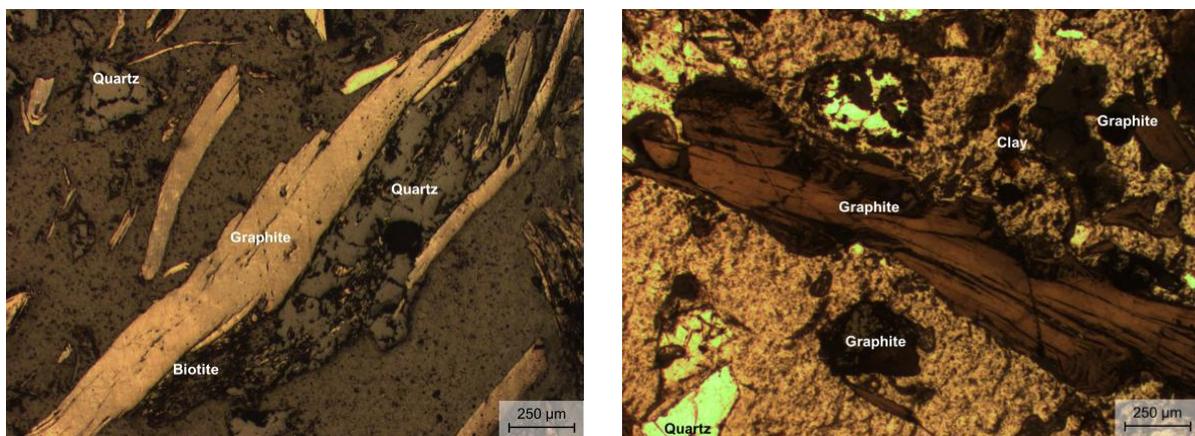
The Company has planned a further five drill holes at the Ndololo prospect, which it intends on drilling during the current campaign.

“We are encouraged by indications that the tonnage potential of this project is significant, based on width of intersections and strike length of mapped occurrences,” said Mr O’Loughlin.

The RC drilling campaign continues at the Ndololo prospect, with Kibaran Resources being recently advised of the granting of the Epanko tenement. Drilling approval has been given at Epanko with RC drilling planned to follow the completion of the drilling campaign at Ndololo.

#### **METALLURGY UPDATE – EVIDENCE OF LARGE FLAKE GRAPHITE**

The Company has received the optical mineralogy report for the Ndololo and Merelani-Arusha metallurgical samples. The photomicrographs contained within the report demonstrates the true extent and massive size of the larger graphite flakes, which are greater than 2,000 microns (+2mm) in length (refer figure 4).

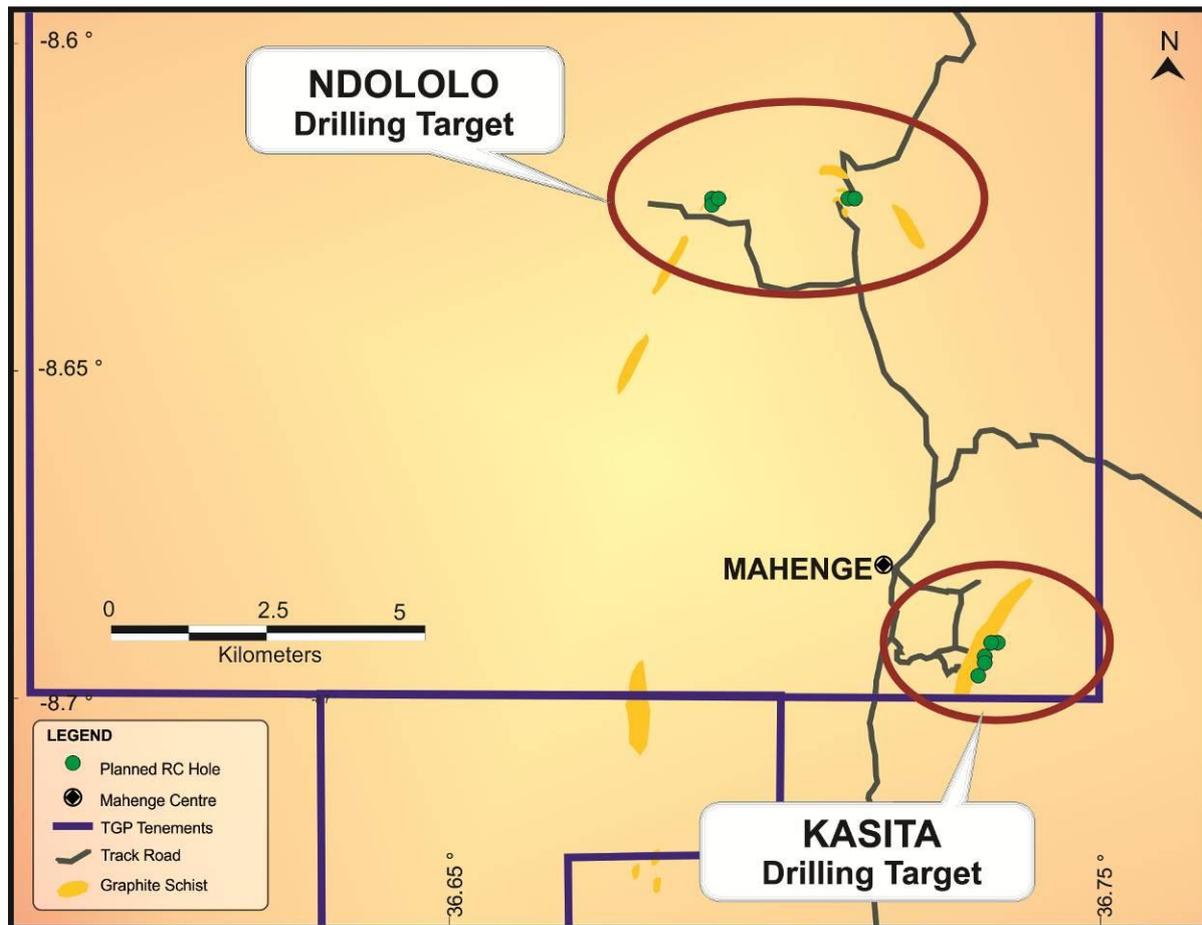


**Figure 4:** Photomicrographs showing the true extent and size of the graphite flakes (note the 250 micron scale). Plane Polarized Reflected Light. Ndololo sample (left) and Merelani-Arusha (right)

The other important technical aspect of the optical mineralogy is that the mineral assemblages and graphite occurrence of both samples are similar.

“We are pleased to see strong evidence of the more valuable large flake graphite at our prospects. A large graphite flake is considered anything over 177 microns and our results significantly surpass this measure,” said Mr O’Loughlin.

The final metallurgical report with recovery results from flotation testwork is expected in two weeks.



**Figure 5:** Drill hole locations at the Mahenge Project.

## ABOUT KIBARAN RESOURCES LIMITED

Kibaran Resources Limited (ASX:KNL) is an ASX-listed exploration company with highly prospective graphite and nickel projects located in Tanzania.

The Company recently acquired the rights to the Mahenge and Merelani-Arusha Projects which are considered to be highly prospective for commercial graphite.

Graphite is regarded as a critical material for future global industrial growth, destined for industrial and technology applications including nuclear reactors, lithium-ion battery manufacturing and a source of graphene.



In addition, the Kagera Nickel Project remains underexplored and is among the largest undeveloped, high grade nickel sulphide deposits in the world.

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