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21 December 2023

# MULTIPLE PEGMATITES DRILLED AT KING TAMBA

- 27 of the planned 49 drill holes have been completed to date.
- 75% of drillholes completed have intersected pegmatites, with intersections up to 39m downhole width.
- Drilling has now tested 30% of the broader 3km LCT corridor.

Krakatoa Resources Limited (ASX: KTA) ("Krakatoa" or the "Company") is pleased to provide an update on the 6000 metre Phase 2 pegmatite exploration drilling program at the ex-tantalum mine, King Tamba. The program has progressed very well with a total of 3938m completed and 27 holes drilled to date. The field crew and drillers have demobilised from site for the planned festive season break and will return in January.

Drilling commenced at the northern end of the lithium soil anomaly and is systematically progressing southwards. The drilling program is expected to recommence in the second week of January when the remaining 22 holes will be drilled, testing the southern extent of the high-grade lithium soil anomaly.



Figure 1 Photograph of drill hole DAL069 chip tray showing 39m intersection of pegmatite







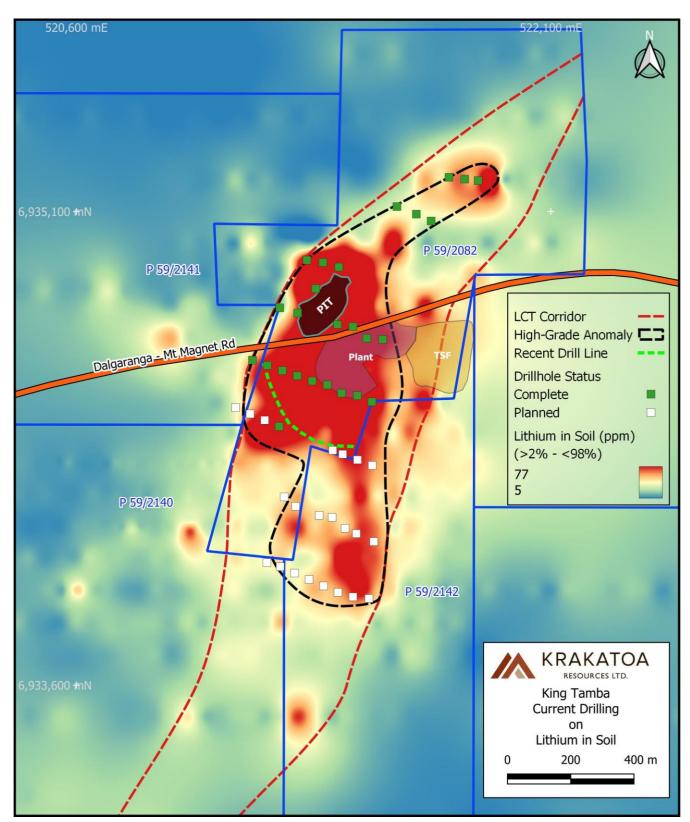


Figure 2 Drill Collar Locations shown in relation to the high-grade lithium soil anomaly (red high, blue low) of interest.

The current hole depths ranged from 134m to 198m, with an average of 145m. Twenty holes have intersected pegmatites hosted in a mixture of dolerite and fine-grained metasediments (Figure 2 and 3).

Significant pegmatites have been intersected in multiple drillholes, including a 39m thick unit from 123m depth in DAL069 (Figure 1), 34m thickness from 91m in DAL062, and 18m from surface in DAL068.





The mineralogy of the pegmatites showed variable proportions of quartz, feldspar, and mica along with traces of accessory minerals such as fluorite and tourmaline in places. Multiple highly micaceous zones were intersected which shared visual similarities with the greisen altered surface samples taken from Wilsons prospect earlier in the year. Large pegmatites (>10m downhole width) generally showed good continuity across section, whilst smaller pegmatites tended to have a more erratic distribution and be less continous.

The presence of pegmatites does not confirm the presence of lithium mineralisation. Pegmatites are fractionated coarse grained igneous rocks commonly associated with lithium, caesium, and tantalum mineralisation; however, many pegmatites do not contain appreciable quantities of mineralisation. The presence of any mineralisation can only be confirmed with assaying.

Two batches of drilling samples, totalling 788 samples, have been delivered to the laboratory over the course of the drilling program and are now awaiting preparation for assay. All assay results will be reported in due course.

Summary drill logs detailing pegmatite distribution are given in Table 1 below.

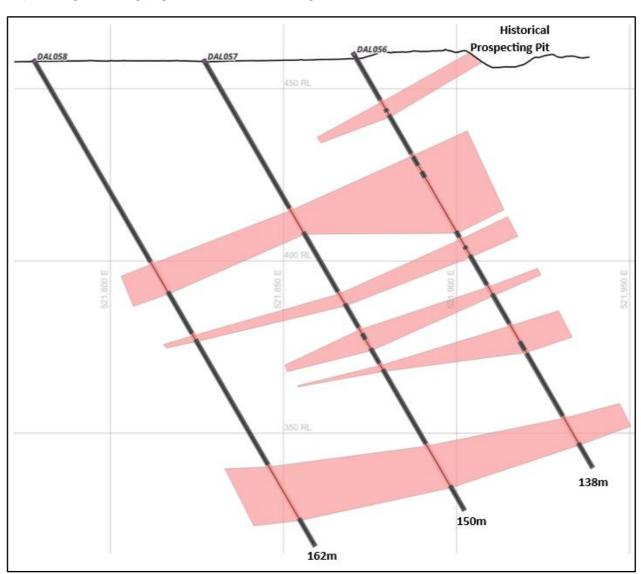


Figure 3: Schematic cross-section over the northern drill line showing pegmatite distribution and continuity.





Table 1: Collar Details & Summary Logs

Hole ID	Easting	Northing	Depth (m)	Dip (deg)	Azi	Pegmatite Intersections
DAL056	521870	6935198	138	-60	90	16-19, 20-21, 34-35, 38-40, 42-60, 62-65, 66-68, 78-81, 91-97, 100-101, 122-131
DAL057	521827	6935203	150	-60	96	50-58, 78-82, 90-92, 94-97, 102-104, 129-143
DAL058	521778	6935208	162	-60	96	68-78, 92-94, 136-154
DAL059	521721	6935070	138	-60	113	70-78
DAL060	521675	6935092	138	-60	113	83-90
DAL061	521613	6935116	138	-60	113	91-106
DAL062	521430	6934924	138	-60	100	91-125
DAL063	521379	6934939	138	-60	100	114-120
DAL064	521329	6934946	162	-60	100	139-150
DAL065	521356	6934856	150	-60	100	No pegmatite intersected.
DAL066	521568	6934695	134	-60	106	67-71, 107-110, 117-124
DAL067	521518	6934699	138	-60	106	53-60, 100-114
DAL068	521474	6934735	138	-60	106	0-18, 52-55, 61-63, 114-124
DAL069	521426	6934742	168	-60	106	123-162
DAL070	521425	6934742	150	-60	286	No pegmatite intersected.
DAL071	521299	6934779	150	-60	106	No pegmatite intersected.
DAL072	521243	6934795	138	-60	106	No pegmatite intersected.
DAL073	521488	6934517	144	-60	110	9-15, 27-30, 63-64, 73-76, 93-97, 126-130, 133-137
DAL074	521438	6934525	138	-60	110	25-27, 59-61, 76-79, 119-130
DAL075	521393	6934551	138	-60	110	9-13, 107-109
DAL076	521534	6934497	162	-60	110	38-40, 72-75, 85-87, 131-139, 153-155
DAL077	521345	6934563	138	-60	110	0-2
DAL078	521298	6934580	138	-60	110	No pegmatite intersected.
DAL079	521251	6934596	138	-60	110	No pegmatite intersected.
DAL080	521204	6934613	138	-60	110	No pegmatite intersected.
DAL081	521157	6934629	198	-60	110	135-170, 179-196
DAL086	521535	6934296	138	-60	113	4-10, 73-77, 83-107





#### -END-

Authorised for release by the Board.

#### FOR FURTHER INFORMATION:

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#### **Competent Person's Statement**

The information in this report that relates to Mineral Exploration is based on information compiled by Mr David Nelson, a Competent Person who is a Member of The Australian Institute of Geoscientists. Mr Nelson is a full-time employee of Krakatoa Resources Ltd where he holds the position of Exploration Manager - WA. Mr Nelson has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration, and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'.

Mr Nelson consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

#### Disclaimer

Forward-looking statements are statements that are not historical facts. Words such as "expect(s)", "feel(s)", "believe(s)", "will", "may", "anticipate(s)" and similar expressions are intended to identify forward-looking statements. These statements include, but are not limited to statements regarding future production, resources or reserves and exploration results. All of such statements are subject to certain risks and uncertainties, many of which are difficult to predict and generally beyond the control of the Company, that could cause actual results to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include, but are not limited to: (i) those relating to the interpretation of drill results, the geology, grade and continuity of mineral deposits and conclusions of economic evaluations, (ii) risks relating to possible variations in reserves, grade, planned mining dilution and ore loss, or recovery rates and changes in project parameters as plans continue to be refined, (iii) the potential for delays in exploration or development activities or the completion of feasibility studies, (iv) risks related to commodity price and foreign exchange rate fluctuations, (v) risks related to failure to obtain adequate financing on a timely basis and on acceptable terms or delays in obtaining governmental approvals or in the completion of development or construction activities, and (vi) other risks and uncertainties related to the Company's prospects, properties and business strategy. Our audience is cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and we do not undertake any obligation to revise and disseminate forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events.

# Appendix 1 -JORC Code, 2012 Edition – Table 1

### **Section 1 Sampling Techniques and Data**

(Criteria in this section apply to all succeeding sections)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul> <li>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialized industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (eg' reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverized to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types may warrant disclosure of detailed information.</li> </ul>	The samples discussed in the report were obtained by Reverse Circulation (RC) drilling. A series of 140mm diameter holes were drilled and sampled, with samples collected at 1m intervals using a cyclone-mounted cone splitter which produces a ~35kg bulk sample and two ~3kg sub-samples for assaying. Selection for assaying was conditional based on geological criteria: the presence of pegmatite rocks plus a minimum buffer of 3m into surrounding country rock. The site geologist reviewed representative sub-samples of each metre by washing, sieving out -2mm material, and geologically logging the rock chips to determine selection for assay. Company sampling protocols include the use of regular field duplicate sampling and selective umpire assaying. Sampling errors are mitigated by checking sample bag number sequences at the end of every drill rod (6m) and immediately rectifying errors. Twinned drill-holes have not been used to assess sampling representivity at the project but are likely to be used in future. Reverse circulation drilling was used to obtain 1m samples from which a 3 kg subsample was delivered to the ALS Laboratory in Perth for preparation and assaying. Samples were crushed and pulverised to produce a 250g pulp before digestion of a 50g charge by sodium peroxide fusion and assaying for an extended pegmatite exploration suite by a combination of MS and ICP-MS. Over-limit XRF methods are employed by the laboratory when upper detection limits of the stated method are exceeded.
Drilling techniques	<ul> <li>Drill type (e.g., core, RC, open-hole hammer, RAB, auger etc.) and details (e.g., core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).</li> </ul>	Drilling was completed using a Schramm T685 Reverse Circulation drill rig fitted with a 140mm diameter face sampling bit. Downhole surveys were taken every 30m using a gyroscopic survey tool operated by the drilling crew.
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximize sample recovery and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>	Sample recovery was estimated visually and by using a spring scale to check sample weights were sufficient. Data was recorded in the geological logs and later uploaded to the Company's secure database. Greater than 95% of samples were considered to have excellent recovery and over 99% of samples were dry. Small amounts of poor recovery are noted while collaring the hole and some minor wet samples were noted where there was high water groundwater influx.  The sample cyclone and splitter were cleaned throughout each drill hole, between samples and after drilling each rod. Thorough cleaning after intervals of significant water was also done. RC sample recovery was visually assessed with recovery, moisture and contamination recorded.  The Company is not aware of any relationship between sample recovery and grade. No preferential loss or gain has been recorded in mineralised zones.
Logging	<ul> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	All drill chips were geologically logged on site on a metre-by-metre basis by qualified geologists following the KTA logging scheme. All recorded information was loaded to a digital database and validated.  Geological logging is qualitative in nature and records interpreted lithology, alteration, mineralisation, and veining. Mineralisation logging includes visual estimation of the percentage content of economic minerals within the rock mass, which can be considered quantitative.  All drill holes are logged in full, from collar to end-of hole.
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn, whether 1/4, 1/2 or whole core taken.</li> <li>If non-core, whether riffled, rotary split, etc. and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximize representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.</li> </ul>	Samples were collected at 1m intervals using a cyclone-mounted cone splitter which produces a ~35kg bulk sample and two ~3kg subsamples for assaying. Samples were collected dry where possible, with less than 1% of samples being wet due to groundwater. The samples were sent to an accredited laboratory for sample preparation and analysis. All samples were sorted, dried, pulverised to -75µm to produce a homogenous representative 250g pulp for analysis. A grind quality target of 85% passing -75µm has been established. QC procedures involved the use of Certified Reference Materials (CRM) along with sample duplicates. Selected sample pulps are also reanalysed to confirm anomalous results. Laboratory QAQC includes insertion of certified standards, blanks, check replicates and fineness checks to ensure grind size of 85% passing -75µm.  Field duplicates are taken at least three times in every 100 samples. All samples submitted were selected to weigh less than 5kg to ensure total preparation at the pulverisation stage. Duplicate sample results are reviewed regularly for both internal and external reporting purposes.

	This die campie care appropriate to all grain care or are material being	s are considered appropriate for the grain size of the material being sampled.
Quality of assay data and laboratory tests	<ul> <li>procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates,</li> </ul>	al scheme used is ALS MS91-PKG which is designed as a pegmatite exploration suite. It employs digestion of a 50g charge by xide fusion then assaying by a combination of MS and ICP-MS. Over-limit XRF methods are employed by the laboratory when ion limits of the stated method are exceeded. The digest is considered near total for the minerals of interest. cal tools were used to determine any reported element concentrations.  DAQC involves the use of internal lab standards using certified reference material and blanks as part of inhouse procedures. The so submitted an independent suite of CRMs and blanks. A formal review of this data is completed on a periodic basis. No sues have been encountered and the data shows acceptable levels of accuracy and precision.
Verification of sampling and assaying	<ul> <li>company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data</li> <li>Maxwell Data</li> </ul>	s included in this report were identified by a contract geologist and have been verified by the Competent Person.  notes have been drilled.  cted in the field using MS Excel logging templates with in-built data validation. The data is reviewed and then uploaded to a ashed 5 database and stored offsite.  ints have been made to assay data.
Location of data points		llars are initially located by handheld GPS, and then picked up by an accredited surveyor if expected to be used in resource xpected accuracy is +/- 3m for Handheld GPS and +/- 0.1m or less for surveyor data.
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	cing is a nominal 100x50m spacing in the recent drilling area.  been completed or classification applied at this stage.  ompositing has been applied.
Orientation of data in relation to geological structure	structures and the extent to which this is known, considering the deposit type. angled drillh	on-based sampling bias is known at this time. The mineralised pegmatites are believed to be sub-horizontal in nature, thus the oles reported here should return an approximately true-width intersection through mineralised zones.  Acoustic televiewer surveying is planned to confirm the assumed orientation of intersected pegmatites.
Sample security	by the labor	re hand-delivered to the laboratory in sealed bags by the geologists who carried out the sampling. Sample receipts were issued atory once sample sorting and cataloguing had been completed, at which point these were reconciled against the sampling stained by the field geologists.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.  No audits have a sampling techniques.	ve been conducted to date.

## **Section 2 Reporting of Exploration Results**

(Criteria listed in the preceding section also apply to this section)

Criteria	JORC Code explanation				Commen	tary		
Mineral tenement andland tenure status	<ul> <li>Type, reference name/number, location and ownership including agreementsor material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> </ul>	<ul> <li>The King Tamba Project includes one granted exploration tenement (E59/2389) and four granted prospecting licences (P59/2082, 2140-2142) registered to Krakatoa Resource Limited. The combined area of the licences is ~900 Ha.</li> </ul>						
	<ul> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul>		Tenement ID	Status	Grant Grant	Expiry	Area	Units
	obtaining a licerice to operate in the area.		E59/2389	LIVE	29/08/2019	30/06/2026	2	BL.
			P59/2141	LIVE	27/08/2017	2/05/2026	145.6	HA.
			P59/2082	LIVE	5/12/2015	28/07/2024	107.71	HA.
			P59/2140	LIVE	27/08/2017	2/05/2026	176.82	HA.
			P59/2142	LIVE	26/08/2017	2/05/2026	79.11	HA.
		The lice	nces are in good star	nding				
Exploration by other parties	Acknowledgment and appraisal of exploration by other parties.		<ul> <li>The King Tamba Project has been mined for tantalum previously with an historic open pit and associated waste dumps and tailings dams.</li> <li>There have been numerous exploration/resource development campaigns undertaken at King Tamba, with historic records compiled into the drill hole database where available.</li> <li>Past drilling on the project is summarised as follows:</li> </ul>					
purites			Yea	ır	Operator	No. Holes	Metres	
			202	3	KTA	16	1,806	
			202	2	KTA	32	3,045	
			201	7	KTA	11	1,066	
			200	2	Tantalum Australia	22	649	
			200	1	Tantalum Australia	12	345	
			200	0	Aust. Gold Mines	121	4,258	
			199	9	Aust. Gold Mines	15	424	
			199		WRF Investments	11	339	
			Unkno		Various	149	3,858	
			Grand			373	15,790	
Geology	Deposit type, geological setting and style of mineralisation.	<ul> <li>The geology of the King Tamba Project consists of a suite of fine-grained, variably deformed clastic sediments (that grade from relatively massive siltstone and arkose to knotted schists closer to the hinge) with tuffaceous units occurring on the eastern margin. Metadolerite crops out extensively south of the mai open pit.</li> <li>Pegmatite has preferentially intruded the metadolerite unit. Its distribution parallels the NE-trending fold axis of the antiform and a series of substantial NE to NNE-trending faults, suggesting they are all related.</li> <li>The main tantalum minerals at Dalgaranga Mine were tapiolite and tantalite, with lesser microlite. Tantalit ranged from very fine-grained to very coarse, up to several centimetres. Occurrences of Zinnwaldite (lithium mineral, KFe22Al(Al2Si 2O10)(OH)2 to KLi2Al(Si4O10)(F, OH)2) and lepidolite in pegmatite were noted during the reporting period confirming the potential for lithium mineralisation within the Project.</li> <li>All pegmatites appear to display similar fundamental mineralogy of quartz, microcline, albite and muscovite, with accessory beryl and tourmaline</li> </ul>						

Criteria	JORC Code explanation	Commentary				
		The rubidium mineralisation is typically associated with mica and K-feldspar minerals.				
Drill hole Information	<ul> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</li> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in metres) ofthe drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length</li> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</li> </ul>					
Data aggregation methods	<ul> <li>In reporting Exploration Results, weighting averaging techniques, maximumand/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	No averaging, cut-off grades, or metal equivalents have been applied				
Relationship between mineralisation widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there shouldbe a clear statement to this effect (e.g. 'down hole length, true width not known').</li> </ul>	<ul> <li>Only downhole lengths are reported. Given the relationship between drilling angle and pegmatite geometry, true width is estimated to be no less than 80% of the downhole widths reported herein.</li> </ul>				
Diagrams	<ul> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and sectional views.</li> </ul>	Appropriate diagrams are included within the body of the announcement				
Balanced reporting	<ul> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</li> </ul>	Representative reporting of all results has been practiced throughout.				
Other substantive exploration data	<ul> <li>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</li> </ul>	No other significant unreported exploration data for King Tamba are available at this time.				

Criteria	JORC Code explanation	Commentary
Further work	<ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul> <li>Exact plans for further work are still being developed, however potential options have been discussed within the body of the announcement. All future work is predicated on assay results which have not yet been received.</li> </ul>