

Significant Increase in Exploration Target at Kharmagtai

08.11.2019 | [GlobeNewswire](#)

TORONTO, Nov. 08, 2019 - [Xanadu Mines Ltd.](#) (ASX: XAM, TSX: XAM) ("Xanadu" or "the Company") is pleased to announce it has upgraded the global copper and gold Exploration Target at its flagship Kharmagtai project, which is located in the south Gobi region of Mongolia (Figures 1 and 2). A new global Exploration Target has been developed to highlight the large-scale copper-gold potential of the Kharmagtai project. Additionally, an independent valuation (VALMIN) has been completed by SRK for the Kharmagtai Mining Lease (please see Appendix 1).

HIGHLIGHTS

- Large-scale global copper-gold exploration target upgraded for Kharmagtai Project above and beyond 2018 Mineral Resource Estimate
- The Exploration Target is based on 190 diamond drill and 73 reverse circulation drill holes completed since 2002 at Kharmagtai at five separate porphyry centres with over 77,808 metres of new diamond drilling completed by Xanadu
- Additional sulphide metallurgical work in final stages of completion
- Compelling vectors to a very large-scale system below the surface deposits uncovered
- Further drilling is planned to:
 - Convert mineralisation within the Exploration Target into resources;
 - Extend current high-grade mineralisation; and
 - Test seven targets outside of the Exploration Target
- Independent Valuation for the Kharmagtai Project completed

Xanadu's Managing Director & Chief Executive Officer, Dr Andrew Stewart, said "We have always had a strong belief in the large-scale copper-gold potential of Kharmagtai. This Global Exploration Target outlines the areas we are aiming to convert to resources in the near to mid-term. Additionally, our geologists have highlighted a series of compelling geochemical and geophysical vectors which suggest mineralisation within this Exploration Target is just the tip of a much larger porphyry system. We know these systems exist in Mongolia as the giant Oyu Tolgoi is currently being mined some 120km to the south of Kharmagtai and we believe that Kharmagtai is a similar type of system. Additionally, we are in the final stages of completing metallurgical work for the three existing sulphide deposits, which is aimed at increasing the already good recovery assumptions made in the 2018 mineral resource upgrade. Finally, an independent valuation of the Kharmagtai project has been completed by independent consultants, SRK. We commissioned this valuation to highlight to the market the disparity between the company's current perceived value and the Kharmagtai project's potential value.

Our long running objective is to develop Mongolia's next large-scale copper gold deposit. Our current strategy of seeking high-return options via an oxide gold project is focused on providing the capital needed to advance that larger scale copper and gold project.

GLOBAL COPPER-GOLD EXPLORATION TARGET FOR KHARMAGTAI

An exploration target has been developed for the Kharmagtai lease with the aim of highlighting the large-scale copper-gold potential of the project. The recently released Mineral Resource Upgrade and

Scoping Study (please see ASX releases dated 31 October 2018 and 11 April 2019) have demonstrated a robust and viable copper-gold project, but this work only included a small portion of the known mineralisation at Kharmagtai. This Exploration Target has been developed to demonstrate the upside potential of the Kharmagtai Mining Lease and show the areas which could potentially be added to the resource inventory in the near to mid-term.

Five targets have been reviewed across the lease ranging from extensions to existing resources at Stockwork Hill, White Hill and Copper Hill to the recently discovered Zaraa and Golden Eagle deposits.

The Exploration Target is conceptual in nature as there has been insufficient exploration to define a Mineral Resource. It is uncertain if further exploration will result in the determination of a Mineral Resource under the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, the JORC Code" (JORC 2004). The Exploration Target is not being reported as part of any Mineral Resource or Ore Reserve and the areas of mineralisation that have been reported in the 2018 Mineral Resource Upgrade have been removed from the exploration target area.

Additionally, two styles of exploration target have been defined. Table 1 shows the exploration targets as a range define based on drill results and extensions of the 2018 Mineral Resource Upgrade only.

Table 2 shows exploration targets as a range where corroborating geophysical and geological data at Zaraa highlight potential extensions to that target.

Table 1: Kharmagtai copper-gold exploration targets – drill result and block model extension data only

Target Name	Length* ¹ (m)	Width* ² (m)	Height* ³ (m)	Density* ⁴ (t/m ³)	Tonnage Range* ⁴	Grade Range* ⁶ (eCu)	Comments
White Hill	1200 to 1800	400 to 500	250 to 500	2.76	331Mt to 1.24Bt	0.3% to 0.5% eCu	See Figure 3 for c
Stockwork Hill	800 to 900	200 to 400	150 to 250	2.76	66Mt to 248Mt	0.3% to 0.5% eCu	See Figure 4 for c
Copper Hill	200 to 300	100 to 200	200 to 300	2.76	11 to 50Mt	0.3% to 0.5% eCu	See Figure 5 for c
Golden Eagle	300 to 350	200 to 250	200 to 250m	2.76	33 to 60Mt	0.3% to 0.5% eCu	See Figure 8 for c
Target Name	Length* ¹ (m)	Width* ² (m)	Height* ³ (m)	Density* ⁴ (t/m ³)	Tonnage Range* ⁴	Grade Range* ⁶ (eCu)	Comments
Stockwork Hill	300-450	150-200	150-250	2.78	19Mt - 63Mt	0.5% to 1% eCu	See Figure 4 for c
Zaraa	600-700	100-150	200-250	2.78	33Mt - 73Mt	0.5% to 1% eCu	See Figure 6 for c

1* - Length of the exploration target is defined as a conservative maximum and minimum length estimation based off the distances over which drill intercepts are observed

2* - Width of the exploration targets is defined as a conservative maximum and minimum width estimation based off the distances over which drill intercepts are observed

3* - Height information is defined as a conservative maximum and minimum height estimation based off the distances over which drill intercepts are observed

4* - Density data is taken from drilling data and assumed to be the average rock density in the Kharmagtai dataset at grade ranges above 0.3% eCu (2.76 t/m³) and 0.5% eCu (2.78 t/m³)

5* - Tonnage range is estimated as a calculation of the maximum and minimum length, width and depth multiplied by the density.

6* - Grade range is taken directly from drill results

7* - Numbers are rounded to avoid the false impression of a level of accuracy which may have led to the misrepresentation that this Exploration Target is akin to a Resource Estimation.

8* - Metallurgical recovery information is built into the eCu calculation and therefore should not be applied in addition to the tonnages reported here

9* - A floor of 600m from surface has been applied to the 0.3% eCu cut-off target to represent a realistic maximum depth for a potential open cut

10* - cut off grades of 0.3%eCu have been used to represent potential open cut material and 0.5% eCu for underground material to match that used in the 2018 MRE

Table 2: Kharmagtai copper-gold exploration target – drill result with geophysical extensions

Target Name	Length* ¹ (m)	Width* ² (m)	Height* ³ (m)	Density* ⁴ (t/m ³)	Bulk Tonnage Range* ⁵	Minus Table 1 (above) tonnage range* ⁶	Geophysical Extension Tonnage Range* ⁷
Zaraa	800 to 1300	150 to 200	500 to 600	2.78	167Mt – 434Mt	33Mt - 73Mt	134Mt &n

1* - Length of the exploration target is defined as a conservative maximum and minimum length estimation based off the distances over which drill intercepts are observed and geological or geophysical characteristics associated with the mineralisation are observed

2* - Width of the exploration targets is defined as a conservative maximum and minimum width estimation based off the distances over which drill intercepts are observed and geological or geophysical characteristics associated with the mineralisation are observed

3* - Height information is defined as a conservative maximum and minimum height estimation based off the distances over which drill intercepts are observed and geological or geophysical characteristics associated with the mineralisation are observed.

4* - Density data is taken from drilling data and assumed to be the average rock density in the Kharmagtai dataset at grade ranges above 0.3 eCu (2.76 t/m³) and 0.5% eCu (2.78 t/m³)

5* - Tonnage range is estimated as a calculation of the maximum and minimum length, width and depth multiplied by the density.

6* - Grade range is taken directly from drill results and shown in Table 1

7* - The Exploration target from Table one is subtracted to give an extension to the Table one result

8* - Numbers are rounded to avoid the false impression of a level of accuracy which may have led to the misrepresentation that this Exploration Target is akin to a Resource Estimation.

9* - Metallurgical recovery information is built into the eCu calculation and therefore should not be applied in addition to the tonnages reported here

10* - cut off grades of 0.3% eCu have been used to represent potential open cut material and 0.5% eCu for underground material to match that used in the 2018 MRE

ABOUT WHITE HILL

White Hill represents the largest outcropping body of mineralisation at Kharmagtai. Mineralisation consists of disseminated copper sulphides associated with high-density quartz veining typical of a large porphyry system. The dimensions for the Exploration Target at White Hill are based off diamond drill holes with drill results over 0.3% eCu (Figure 3). Geological and structural analysis of the White Hill deposit over the past year has shown that the higher-grade mineralisation is associated with a combination of a dyke of monzodiorite (P2) and series of west-northwest dipping faults. It is believed these faults have helped channel mineralisation upwards where it has interacted with magnetite bearing quartz stockworks in and around the monzodiorite dyke resulting in the precipitation of copper and gold. This model significantly expands the area over which mineralisation could occur and suggests the White Hill system is significantly larger than previously thought. Geophysical data suggests that the White Hill deposit will join at depth with the Stockwork Hill Deposit.

ABOUT STOCKWORK HILL

Stockwork Hill is the second largest zone of outcropping mineralisation at Kharmagtai. Mineralisation consists of a combination of high-grade stockworks and tourmaline breccias. Recently, the high-grade extensions to the deposit were discovered when an offset zone of gold-rich bornite mineralisation was drilled south of the main tourmaline breccia body. This work has shown that Stockwork Hill is linked at depth to a potentially much larger and higher grade bornite zone. Due to the variation in the style of mineralisation the geophysical signature of the deposit is not fully understood. The high-density stockwork zones respond in magnetism surveys but the tourmaline breccia appears to be magnetically destructive. Induced polarisation appears not to see the mineralisation as the sulphides are massive breccia infill and vein hosted rather than disseminated. The Exploration Target at Stockwork Hill was therefore only based on diamond drill results only (Figure 4). There is a strong magnetic anomaly that sits below Stockwork Hill to the southwest, suggesting the potential for a large high-density stockwork zone that may also link to White Hill.

ABOUT COPPER HILL

Copper Hill is the highest-grade zone of mineralisation at Kharmagtai and was discovered when a small but intense magnetic high was drilled early in Kharmagtai's history. Mineralisation consists of very

high-grade chalcopyrite veins overprinting an existing stockwork of quartz magnetite veins. In a scenario very similar to White Hill, mineralisation is associated with the confluence of a P2 monzodiorite dyke and west-northwest dipping faults (Figure 5). Beneath Copper Hill sits a large zone of high intensity magnetics which may represent the extensions to Copper Hill.

ABOUT ZARAA

Zaraa was discovered in 2018 as a part of the undercover initiative. Mineralisation at Zaraa consists of chalcopyrite bearing quartz veins and chalcopyrite only veining associated with a series of P2 monzodiorite dykes. The Zaraa system has a very large 3DIP chargeability anomaly which sits above and surrounding the mineralisation (Figure 6). Due to the size of Zaraa and the limited amount of drilling a conservative approach has been taken to developing an Exploration Target with only drilling data having been used. However, should the zone of known mineralisation be extended using geophysical corroboration seen in the IP data a significantly larger Exploration Target would be appropriate (see Table 2 and Figure 7).

ABOUT GOLDEN EAGLE

Golden Eagle was discovered in 2017 as a part of the undercover initiative. Mineralisation at Golden Eagle consists of chalcopyrite bearing quartz-magnetite veins and disseminated chalcopyrite with free gold. Mineralisation at Golden Eagle broadly coincides with a large magnetic high relating to the magnetite content of the porphyry quartz veining. The Exploration Target at Golden Eagle has been based solely on drilling data (Figure 8).

LARGE SCALE POTENTIAL OF THE KHARMAGTAI LEASE

The undercover initiative implemented in 2016 is still being followed up upon. There are large parts of the Kharmagtai Mining Lease which exhibit significant copper and gold geochemical anomalism (Figure 9) that require follow up drilling to test. The shallow open pit potential of the lease is still significant. Additionally, porphyry mineral systems form as copper and gold are concentrated through a series of vertically staged magma chambers. It is this characteristic that makes these systems so large. At Oyu Tolgoi, 120km south of Kharmagtai the main mineral deposit does not start until >600m vertically from surface and extends to some 2400m below surface to where drilling stopped.

At Kharmagtai there are a set of compelling vectors that suggest the mineralisation seen at surface is just the top of a much larger system. The first of these vectors is the gravity data. When the low frequency gravity data is reviewed a very large, higher density body is seen below the surface mineralisation (Figure 10). This body could represent another, larger staging chamber, from which the currently drilled mineralisation may have evacuated. Another compelling feature are the zones of high magnetics below Stockwork Hill, White Hill and Copper Hill. These may represent zones of high-density quartz-magnetite-chalcopyrite-bornite veining (Figures 11, 12 and 13). Additionally, porphyry systems are usually zoned chemically. Molybdenum often forms a halo above and around the tops of copper gold porphyry systems. At Kharmagtai this zonation is seen, most clearly at White Hill, however, another halo of molybdenum enrichment can be cross cutting the base of White Hill and Zaraa, strongly suggesting a larger copper gold system lies beneath the surface mineralisation (Figure 14). When combined, these vectors paint the picture of a giant porphyry system below the existing mineralisation.

PROGRAM REQUIRED TO CONVERT EXPLORATION TARGETS TO RESOURCES AND DISCOVER LARGE-SCALE POTENTIAL

A geophysical and drill program has been designed and costed to convert the above Exploration Targets into inferred Mineral Resources and discover the hypothesised very large-scale copper gold porphyry system beneath the existing resources.

The first phase of exploration would consist of a tenement wide seismic survey conducted in parallel with a similar spaced deep seeing magnetotellurics (MT) program. Seismic would be used to define the fault architecture of the entire mining lease to ensure the drill targeting is as accurate as possible. A magnetotellurics program would be conducted to identify large zones of sulphide mineralisation located beneath the structures highlighted by the seismic survey. This program has been costed at between \$300 to

\$600K depending on the geophysical contractor used and would form the basis of the drill targeting for the Oyu Tolgoi sized system at Kharmagtai.

Drill holes have been planned for Stockwork Hill, Copper Hill, Zaraa and elsewhere within the tenement to convert the above exploration target into an inferred mineral resources. Costing for this program is summarised in Table 3 below).

INDEEDENT VALUATION OF THE KHARMAGTAI PROJECT BY SRK CONSULTING

An independent valuation of the Kharmagtai Property has been conducted by SRK Consulting (Australasia) Pty Ltd) (SRK) in accordance to the VALMIN Code (2015). The objective of SRK's report was to demonstrate the difference between the current company market valuation and a conservative and independent expert valuation of one of the projects within Xanadu's portfolio. This valuation can be found in Appendix 1.

Table 3: Indicative drill costs

<i>Target</i>	<i>Target Type</i>	<i>Target Res Cat</i>	<i># Drill Holes</i>	<i>DDH (m)</i>	<i>RC (m)</i>	<i>Assays</i>	<i>Total Cost</i>
Copper Hill	Open Pit/UG	Indicated	13	13000		\$ 6,500	\$ 2,184,040
Stockwork Hill Bornite	Underground	Indicated	25	35000		\$ 15,000	\$ 5,840,040
White Hill West	Open Pit/UG	Indicated	48	0	13000	\$ 7,500	\$ 1,095,040
Zaraa	Underground	Inferred	20	22862		\$ 11,000	\$ 3,833,960
Porphyry Cluster One	Open Pit/UG	Discover	18	2600	2600	\$ 2,600	\$ 652,640
Porphyry Cluster Two	Open Pit/UG	Discover	28	4200	4200	\$ 4,200	\$ 1,054,240
Porphyry Cluster Three	Open Pit/UG	Discover	17	2650	2650	\$ 2,650	\$ 665,190
Porphyry Cluster Four	Open Pit/UG	Discover	8	1200	1200	\$ 1,200	\$ 301,240
Porphyry Cluster Five	Open Pit/UG	Discover	17	2550	2550	\$ 2,550	\$ 640,090
Porphyry Cluster Six	Open Pit/UG	Discover	12	1800	1800	\$ 1,800	\$ 451,840
Large scale Cu-Au system	Underground	Discover	20	36000		\$ 18,000	\$ 6,048,040
						Total	\$ 22,766,360

Photos accompanying this announcement are available at:

<https://www.globenewswire.com/NewsRoom/AttachmentNg/d54dc012-f314-4346-b393-e498eb33506e>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/681cf61a-e1f8-4c3b-b940-8437db4f00f5>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/e5134b81-c22b-44d1-8909-62e6d54bec02>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/8a07cbd9-afda-4726-9518-594a0ac21f38>

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<https://www.globenewswire.com/NewsRoom/AttachmentNg/2fe6a9ce-4bce-4f35-8b22-2b00b43c09f2>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/8917a189-f9e6-4e34-b225-4eb110116a1d>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/f77ea4ce-f078-492f-9b4d-410f76a20279>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/f320c1e6-297f-478c-af2a-b2c621c52565>

COMPETENT-QUALIFIED PERSON STATEMENT

The information in this announcement that relates to exploration results is based on information compiled by Dr Andrew Stewart who is responsible for the exploration data, comments on exploration target sizes, QA/QC and geological interpretation and information. Dr Stewart, who is an employee of Xanadu and is a Member of the Australasian Institute of Geoscientists, has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as the "Competent Person" as defined in the 2012 Edition of the "Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves" and the National Instrument 43-101. Dr Stewart consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

COPPER EQUIVALENT CALCULATIONS

The copper equivalent (eCu) calculation represents the total metal value for each metal, multiplied by the conversion factor, summed and expressed in equivalent copper percentage with a metallurgical recovery factor applied. The copper equivalent calculation used is based off the eCu calculation defined by CSA in the 2018 Mineral Resource Upgrade.

Copper equivalent (eCu) grade values were calculated using the following formula:

$$eCu = Cu + Au * 0.62097 * 0.8235,$$

Where:

- Cu - copper grade (%)
- Au - gold grade (g/t)
- 0.62097 - conversion factor (gold to copper)
- 0.8235 - relative recovery of gold to copper (82.35%).

The copper equivalent formula was based on the following parameters (prices are in USD):

- Copper price - 3.1 \$/lb (or 6834 \$/t)
 - Gold price - 1320 \$/oz
 - Copper recovery - 85%
 - Gold recovery - 70%
- Relative recovery of gold to copper = 70% / 85% = 82.35%.

CAUTIONARY STATEMENTS REGARDING EXPLORATION TARGETS

The Exploration Target is conceptual in nature as there has been insufficient exploration to define a Mineral Resource. It is uncertain if further exploration will result in the determination of a Mineral Resource under the

“Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, the JORC Code” (JORC 2004). The Exploration Target is not being reported as part of any Mineral Resource or Ore Reserve and previously reported areas of Mineral Resource have been extracted from the Exploration Target.

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APPENDIX 1: INDEPENDENT VALUATION (VALMIN 2015) OF THE KHARMAGTAI PROPERTY
<http://ml.globenewswire.com/Resource/Download/2a3c0f2a-a5bb-4eaf-bb47-b741b2f03d88>

APPENDIX 2: KHARMAGTAI TABLE 1 (JORC 2012)

1.1 JORC TABLE 1 – SECTION 4 ESTIMATION AND REPORTING OF ORE RESERVES

Set out below is Section 1 and Section 2 of Table 1 under the JORC Code, 2012 Edition for the Kharmagtai project. Data provided by Xanadu. This Table 1 updates the JORC Table 1 disclosure dated 31 July 2018.

1.2 JORC TABLE 1 - SECTION 1 - SAMPLING TECHNIQUES AND DATA

Criteria	JORC Code explanation
<i>Sampling techniques</i>	<ul style="list-style-type: none">● <i>Nature and quality of sampling (eg cut channels, random ch</i>● <i>Include reference to measures taken to ensure sample repre</i>● <i>Aspects of the determination of mineralisation that are Mate</i>● <i>In cases where ‘industry standard’ work has b</i>
<i>Drilling techniques</i>	<ul style="list-style-type: none">● <i>Drill type (e.g. core, reverse circulation, open-hole hammer,</i>
<i>Drill sample recovery</i>	<ul style="list-style-type: none">● <i>Method of recording and assessing core and chip sample re</i>● <i>Measures taken to maximise sample recovery and ensure re</i>● <i>Whether a relationship exists between sample recovery and</i>
<i>Logging</i>	<ul style="list-style-type: none">● <i>Whether core and chip samples have been geologically and</i>● <i>Whether logging is qualitative or quantitative in nature. Core</i>● <i>The total length and percentage of the relevant intersections</i>

Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> ● If core, whether cut or sawn and whether quarter, half or all ● If non-core, whether riffled, tube sampled, rotary split, etc ● For all sample types, the nature, quality and appropriateness ● Quality control procedures adopted for all sub-sampling stages ● Measures taken to ensure that the sampling is representative ● Whether sample sizes are appropriate to the grain size of the
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> ● The nature, quality and appropriateness of the assaying and ● For geophysical tools, spectrometers, handheld XRF instruments ● Nature of quality control procedures adopted (eg standards,)
Verification of sampling and assaying	<ul style="list-style-type: none"> ● The verification of significant intersections by either independent ● The use of twinned holes. ● Documentation of primary data, data entry procedures, data ● Discuss any adjustment to assay data.
Location of data points	<ul style="list-style-type: none"> ● Accuracy and quality of surveys used to locate drill holes (collar ● Specification of the grid system used. ● Quality and adequacy of topographic control.
Data spacing and distribution	<ul style="list-style-type: none"> ● Data spacing for reporting of Exploration Results. ● Whether the data spacing and distribution is sufficient to establish ● Whether sample compositing has been applied.
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> ● Whether the orientation of sampling achieves unbiased sampling ● If the relationship between the drilling orientation and the orientation
Sample security	<ul style="list-style-type: none"> ● The measures taken to ensure sample security.
Audits or reviews	<ul style="list-style-type: none"> ● The results of any audits or reviews of sampling techniques

1.3 JORC TABLE 1 - SECTION 2 - REPORTING OF EXPLORATION RESULTS

Criteria	JORC Code explanation
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Mineral tenement and land tenure status

- *Type, reference name/number, location and ownership*
- *The security of the tenure held at the time of reporting*

Exploration done by other parties

- *Acknowledgment and appraisal of exploration results*

Geology

- *Deposit type, geological setting and style of mineralization*

Drill hole Information

- *A summary of all information material to the understanding of the drill hole, including:
 - o easting and northing of the drill hole collar
 - o elevation or RL (Reduced Level – elevation above sea level)
 - o dip and azimuth of the hole
 - o down hole length and interception depth
 - o hole length.*

- *If the exclusion of this information is justified on the basis of materiality*

Data aggregation methods

- *In reporting Exploration Results, weighting average grades*
- *Where aggregate intercepts incorporate short intervals of high grade*
- *The assumptions used for any reporting of metal content*

	<ul style="list-style-type: none"> ● <i>These relationships are particularly important in</i>
<i>Relationship between mineralisation widths and intercept lengths</i>	<ul style="list-style-type: none"> ● <i>If the geometry of the mineralisation with respect to</i> ● <i>If it is not known and only the down hole length is</i>
<i>Diagrams</i>	<ul style="list-style-type: none"> ● <i>Appropriate maps and sections (with scales) and</i>
<i>Balanced reporting</i>	<ul style="list-style-type: none"> ● <i>Where comprehensive reporting of all Exploration</i>
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> ● <i>Other exploration data, if meaningful and material</i>
<i>Further work</i>	<ul style="list-style-type: none"> ● <i>The nature and scale of planned further work (if</i> ● <i>Diagrams clearly highlighting the areas of possible</i>

1.4 JORC TABLE 1 – SECTION 3 ESTIMATION AND REPORTING OF MINERAL RESOURCES

Criteria	JORC Code explanation
<i>Database integrity</i>	<ul style="list-style-type: none"> ● <i>Measures taken to ensure that data has not been corrupted by, for example,</i> ● <i>Data validation procedures used.</i>
<i>Site visits</i>	<ul style="list-style-type: none"> ● <i>Comment on any site visits undertaken by the Competent Person and</i> ● <i>If no site visits have been undertaken indicate why this is the case.</i>
<i>Geological interpretation</i>	<ul style="list-style-type: none"> ● <i>Confidence in (or conversely, the uncertainty of) the geological interpretation</i> ● <i>Nature of the data used and of any assumptions made.</i> ● <i>The effect, if any, of alternative interpretations on Mineral Resource estimates</i> ● <i>The use of geology in guiding and controlling Mineral Resource estimation</i> ● <i>The factors affecting continuity both of grade and geology.</i>

Dimensions

- *The extent and variability of the Mineral Resource expressed as length*

Estimation and modelling techniques

- *The nature and appropriateness of the estimation technique(s) applied*
- *The availability of check estimates, previous estimates and/or mine production*
- *The assumptions made regarding recovery of by-products.*
- *Estimation of deleterious elements or other non-grade variables of economic interest*
- *In the case of block model interpolation, the block size in relation to the grade variability*
- *Any assumptions behind modelling of selective mining units.*
- *Any assumptions about correlation between variables.*
- *Description of how the geological interpretation was used to control the estimation*
- *Discussion of basis for using or not using grade cutting or capping.*
- *The process of validation, the checking process used, the comparison of different estimates*

Moisture

- *Whether the tonnages are estimated on a dry basis or with natural moisture*

Cut-off parameters

- *The basis of the adopted cut-off grade(s) or quality parameters applied*

Mining factors or assumptions

- *Assumptions made regarding possible mining methods, minimum mining*

Metallurgical factors or assumptions

- *The basis for assumptions or predictions regarding metallurgical amenability*

Environmental factors or assumptions

- *Assumptions made regarding possible waste and process residue disposal*

Bulk density

- *Whether assumed or determined. If assumed, the basis for the assumption*
- *The bulk density for bulk material must have been measured by method*
- *Discuss assumptions for bulk density estimates used in the evaluation*

Classification

- *The basis for the classification of the Mineral Resources into varying*
- *Whether appropriate account has been taken of all relevant factors (e.g.*
- *Whether the result appropriately reflects the Competent Person's opinion*

Audits or reviews

- *The results of any audits or reviews of Mineral Resource estimates.*

Discussion of relative accuracy/ confidence

- *Where appropriate a statement of the relative accuracy and confidence*
- *The statement should specify whether it relates to global or local estimates*
- *These statements of relative accuracy and confidence of the estimates*

1.5 JORC TABLE 1 – SECTION 4 ESTIMATION AND REPORTING OF ORE RESERVES

Ore Reserves are not reported so this is not applicable to this report.

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