

18 September 2014

KHARMAGTAI EXPLORATION TARGET UPGRADED

HIGHLIGHTS

- Xanadu upgrades the Kharmagtai Exploration Target to 150-250Mt at a grade of 0.40-0.60% Cu & 0.40-0.70g/t Au.
- The Exploration Target is based on 260 diamond drill and 155 reverse circulation drill holes completed since 2002 at Kharmagtai at 4 separate porphyry centres including over 9,000m of new diamond drilling by Xanadu.
- Xanadu's recent drilling has discovered a high-grade tourmaline breccia zone east of Altan Tolgoi which is approximately 1,000m long at least 150m wide and up to 600m deep.
- The new tourmaline breccia zone includes multiple intersections of over 200m grading 1.0% CuEq or better representing a significant addition to the Kharmagtai porphyry system.
- Further drilling is planned to:
 - o convert mineralisation within the Exploration Target into resources;
 - o test extensions to the current high-grade mineralisation; and
 - o identify new mineralisation outside of the Exploration Target.
- Xanadu is also preparing a range of multi-disciplinary studies to assess potential development concepts.

DISCUSSION

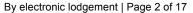
Xanadu Mines Ltd (**ASX: XAM – "Xanadu"**) is pleased to announce it has upgraded the Kharmagtai Exploration Target.

Xanadu recently completed approximately 9,000m of exploration drilling and has updated the geological model covering the Altan Tolgoi, Tsagaan Sudal, Zesen Uul and the recently discovered East Altan Tolgoi tourmaline breccia zone. Additional information used to define the Exploration Target includes detailed surface mapping, trenching and extensive geophysics.

The new Exploration Target is set out in the following table:

	Cu (%	(o)	Au (g/t)	Ton	nes (Mt)
	Low	High	Low	High	Low	High
High Grade Target	0.40	0.60	0.40	0.70	150	250

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Previous exploration had defined three prospects at Altan Tolgoi, Zesen Uul and Tsagaan Sudal with a total Exploration Target estimate of between 250 to 400Mt at an average grade of 0.25 - 0.30% Cu and 0.25 - 0.30g/t Au. The large low-grade target contained a higher-grade target of 50 - 80Mt at an average grade of 0.4 - 0.5% Cu and 0.6 - 0.8 g/t Au (refer to the ASX release dated 3 February 2014).

The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource under the JORC 2012 code and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

TARGET ESTIMATION METHODOLOGY

The Exploration Target is an estimate based on exploration results and a robust geological model. It was supported by all available data from 260 diamond drill and a further 155 reverse circulation drill holes completed at Kharmagtai since 2002 at the prospects. The following data and approach was adopted to quantify Exploration Target:

- drill data and geological drill logs;
- a detailed geological model;
- wire framing to create 0.6% and 0.3% CuEq mineralised envelopes; and
- detailed 3D modelling of geophysical data.

No mining factors have been applied to the in situ grade estimates for mining dilution or loss as a result of grade control or mining processes. No metallurgical factors have been applied to the in situ grade estimates.

GEOLOGY & MINERALISATION

Kharmagtai is an advanced exploration project consisting of multiple co-genetic, gold-rich porphyry copper centres (Figure 1) and overprinting tourmaline breccia pipes occurring within the mid Palaeozoic Kharmagtai Igneous Complex ("KIC"). Extensive exploration including trenching, diamond drilling and geophysics (as summarised in the JORC Table 1 included in Appendix 1) has to date identified significant shallow, high-grade porphyry copper-gold mineralisation within the Altan Tolgoi, Tsagaan Sudal and Zesen Uul prospects which are located within a 800m radius of each other. Recent exploration has also identified a significant zone of high-grade copper-gold mineralisation associated with the tourmaline breccia mineralisation (East Altan Tolgoi).

Altan Tolgoi Prospect

Strong Cu-Au mineralisation at Altan Tolgoi is focused within two areas of quartz stockwork veining: the Northern and Southern Stockwork Zones (Figure 2). The two stockwork zones are separated by 50 – 100m of moderately to strongly sericite-altered and tourmaline breccia.

The Southern Stockwork is a strongly mineralised stockwork zone with a high-grade gold core which is at least 900m long and up to 350m deep. The stockwork zone widens eastward from a 20 to 70m wide high-grade zone in the west to a 200m wide medium grade zone in the east. Mineralisation remains open at depth and along strike to the east.

The stockwork zone includes three holes which have drilled down the core of the deposit, at 40m spacing along strike, the intercepts from west to east are:



Hole	From	Interval	Cu	Au	CuEq
поте	(m)	(m)	(%)	(g/t)	(%)
KHDDH338	110.0	160.0	0.47	0.85	1.00
KHDDH240	3.0	245.0	0.75	2.48	2.31
KHDDH259	3.0	203.0	0.45	2.45	1.99
KHDDH281	28.0	210.0	0.63	1.61	1.64

The Northern Stockwork is centred on quartz-diorite dykes that are 0.5 - 20m wide. These thin dykes and their irregular geometry are typical of the shallower zones of a porphyry system. The near surface expression is 500m long, 150m wide and at least 350m deep. Grades are generally from 0.2 - 0.6% Cu and 0.3 - 0.5 g/t Au. Better intercepts are up 1.0% Cu and 3g/t Au over widths of 10 - 40m. The mineralisation remains open at depth and along strike to the east and west.

East Altan Tolgoi Prospect

The Altan Tolgoi stockwork mineralization is overprinted by a late tourmaline breccia mineralisation at depth and along strike to the east. Previously considered to be barren or only weakly mineralised recent drilling indicates that the tourmaline breccias contribute significantly to mineralisation and represent a new exploration target at Kharmagtai. The tourmaline breccias appear to be controlled by SE-NW trending structures and form highly irregular bodies and are strongly zoned around a high-grade core (which is at least 1,000m long, 150m wide and up to 600m deep). The system remains open along strike to the west and east where tourmaline breccias are very widespread. The tourmaline breccia appears to be part of a much larger system of breccias which extends for several kilometres in an SE-NW direction.

Significant drill intercepts include:

Hole	From (m)	Interval (m)	Cu (%)	Au (g/t)	CuEq (%)
KHDDH343	58.0	550.0	0.39	0.39	0.64
including	358.3	241.7	0.55	0.75	1.02
including	358.3	27.7	0.72	0.55	1.07
including	400.0	32.0	0.40	1.06	1.07
including	468.0	132.0	0.65	0.89	1.21
KHDDH344	0.0	665.7	0.37	0.28	0.55
including	274.0	312.0	0.49	0.40	0.74
including	372.0	36.0	0.82	0.45	1.10



Hole	From	Interval	Cu	Au	CuEq
Tiole	(m)	(m)	(%)	(g/t)	(%)
including	448.0	30.0	0.62	0.62	1.01
including	510.0	66.0	0.47	0.70	0.91
KHDDH346	116.0	390.0	0.51	0.26	0.67
including	307.3	122.7	1.03	0.56	1.38
including	384.0	46.0	1.55	1.11	2.26
and	578.6	59.4	0.89	1.14	1.60
including	578.6	39.4	1.16	1.60	2.16
KHDDH347	146.0	518.0	0.41	0.41	0.67
including	408.0	202.0	0.55	0.73	1.01
KHDDH350	182.0	268.0	0.46	0.52	0.79
including	296.4	119.6	0.62	0.67	1.04

Tsagaan Sudal Prospect

The mineralisation at Tsagaan Sudal occurs as a broad stockwork zone (with grades of 0.3 - 0.4% Cu and 0.3 - 0.6 g/t Au) that is at least 650m long, 100m wide and 550m deep, and forms an elongated, pipe like geometry. Unlike the Altan Tolgoi and Zesen Uul prospects, previous exploration drilling at Tsagaan Sudal has been relatively sparse despite the substantial size of the system. Recent exploration by Xanadu has defined a higher-grade core to the system. The geology, strength of alteration and style of mineralisation suggest that mineralisation will extend to the west and at depth.

Significant drill intercepts include:

Hole	From (m)	Interval (m)	Cu (%)	Au (g/t)	CuEq (%)
KHDDH340	164.0	186.0	0.37	0.53	0.70
KHDDH345	232.0	148.0	0.35	0.45	0.63
including	318.0	60.0	0.45	0.63	0.84
including	320.0	20.0	0.54	0.76	1.01
and	352.0	26.0	0.47	0.65	0.88



Zesen Uul Prospect

At Zesen Uul, the stockwork zone forms a sub vertical body of quartz-chalcopyrite-pyrite vein stockwork mineralisation. It is a strongly mineralised stockwork zone with a high-grade gold core which is at least 400m long, up to 100m wide and 200m deep. The elongated stockwork body plunges to the southeast and is truncated at depth by a fault. The mineralisation has a well-defined high-grade core (grades of 1.0 – 3.0% Cu and 2 - 7g/t Au) with quartz veining tightly focused within the pipe-like stockwork zone. Zones of high-grade mineralisation are characterised by gold (g/t) to copper (%) ratios that typically exceed 2:1. The mineralisation remains open along strike to the east.

Significant drill intercepts include:

Hole	From (m)	Interval (m)	Cu (%)	Au (g/t)	CuEq (%)
KHDDH006	108.0	182.0	0.47	0.52	0.80
KHDDH004	98.0	94.0	0.65	2.06	1.94
KHDDH021	50.0	88.0	0.85	1.30	1.67

EXPLORATION ACTIVITES

Proposed exploration activities are designed to test the validity of the Exploration Target and increase the current drill density comprising 15,000 - 20,000m of diamond drilling with the objective of:

- converting mineralisation tonnages within the Exploration Target into resources;
- testing extensions to the current high-grade mineralisation; and
- identifying new mineralisation not included in the current Exploration Target.

An increase in drilling density would be likely to improve the current level of understanding of the overall morphology of the mineralisation and may support estimation of a Mineral Resource. Xanadu is also preparing a range of multi-disciplinary studies to assess potential development concepts. The diamond drilling and studies will be staged within a 12-month period as illustrated by the following table:

	4Q 2014	1Q 2015	2Q 2015	3Q 2015	4Q 2015
Kharmagtai					
Diamond drilling					
- Central Kharmagtai drilling					
- district exploration drilling					
Central Kharmagtai scoping study					
Central Kharmagtai resource estimate					
Central Kharmagtai advanced studies					
Oyut Ulaan					
Geophysics					
Diamond drilling					



EXPLORATION POTENTIAL

At a district scale, porphyry copper systems and their contained deposits tend to occur as clusters or alignments. A majority of the strongly mineralised porphyry complex lies under unexplored shallow post-mineral sediments. Porphyry mineralisation at Kharmagtai is associated with widespread magnetite alteration and all the main prospects are associated with broad magnetic highs (Figure 3). Geophysical surveys indicate that at least 70% of the strongly mineralised KIC lies under unexplored shallow cover. A regional magnetic survey outlines numerous distinct circular magnetic anomalies in the vicinity of the Altan Tolgoi, Tsagaan Sudal and Zesen Uul prospects. The large Kharmagtai licence area has only been partially explored and the potential for further discoveries remains high.

CONCLUSIONS

Recent drilling success at Kharmagtai by Xanadu has confirmed the presence of wide zones of porphyry mineralisation at potentially economic grades and has raised confidence in significantly upgrading the Exploration Target estimate. An Exploration Target of between 150 to 250 Mt at a grade of 0.40 - 0.60% Cu and 0.40 - 0.70g/t Au has been estimated for the Kharmagtai project representing a significant increase in the copper and gold grade at Kharmagtai. Further potential remains along strike in areas not included in this Exploration Target.

A comprehensive diamond drill program has been designed primarily to convert further mineralisation tonnages currently within the Exploration Target into resources, test potential extensions to high-grade mineralisation and identify new areas of mineralisation not included in the current Exploration Target estimate.

For further information, please contact:

George A. Lloyd Managing Director T: +852 6397 3308 george.lloyd@xanadumines.com

www.xanadumines.com



KHARMAGTAI PROJECT & THE MONGOL METALS JV

Xanadu and its joint venture partner, Mongol Metals LLC, announced the acquisition of a 90% interest in the Kharmagtai porphyry copper-gold project from Turquoise Hill Resources in February 2014. Under the Mongol Metals LLC joint venture terms, Xanadu has the right to earn an 85% interest in Mongol Metals LLC, equivalent to a 76.5% effective project interest, by funding acquisition and exploration costs.

The Kharmagtai project is located in the under-explored South Gobi porphyry copper province which hosts the world-class Oyu Tolgoi copper-gold operation, the Tsagaan Survaga porphyry copper-molybdenum development and Xanadu's Oyut Ulaan copper-gold exploration project. The Kharmagtai project is located within the Omnogovi Province, approximately 420km south southwest of Ulaanbaatar and 60km north of the Tavan Tolgoi coal deposit.

The Kharmagtai project is an advanced exploration project consisting of multiple co-genetic gold-rich porphyry copper centres and tourmaline breccia pipes occurring within the Lower Carboniferous Kharmagtai Igneous Complex. Exploration has identified significant shallow high-grade porphyry copper-gold mineralisation. A majority of the mineralised porphyry complex lies under un-explored shallow sediments. The large licence area has only been partially explored and the potential for further discoveries remains high.

COMPETENT PERSONS STATEMENT

The information in this report relating to Exploration Results is based on information compiled or reviewed by Dr. Andrew Stewart, who is an employee of Xanadu and is a Member of the Australasian Institute of Geoscientists. Dr. Andrew Stewart 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". Dr. Andrew Stewart consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The potential quantity and grade is conceptual in nature. There has been insufficient exploration drilling to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.

The Exploration Target is reported in accordance with Clause 17 of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (2012 Edition) (JORC Code).

The copper equivalent (CuEq) calculation represents the total metal value for each metal, multiplied by the conversion factor, summed and expressed in equivalent copper percentage. Grades have not been adjusted for metallurgical or refining recoveries and the copper equivalent grades are of an exploration nature only and intended for summarising grade. The copper equivalent calculation is intended as an indicative value only. The following copper equivalent conversion factors and long term price assumptions have been adopted: Copper Equivalent Formula (CuEq) = Cu% + (Au (ppm) x 0.6284); Price assumptions: Cu (US\$3.20lb) and Au (US\$1,375oz).



FIGURE 1: KHARMAGTAI INTRUSIONS

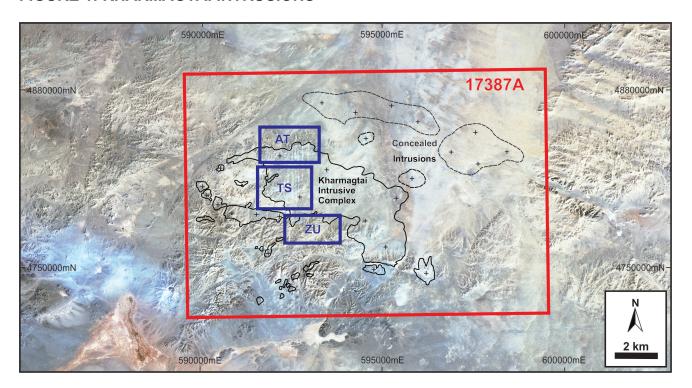


FIGURE 2: CENTRAL KHARMAGTAI MINERALISATION

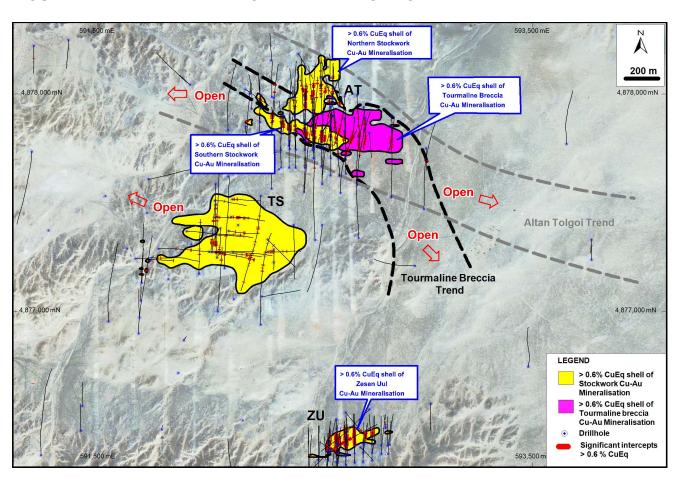
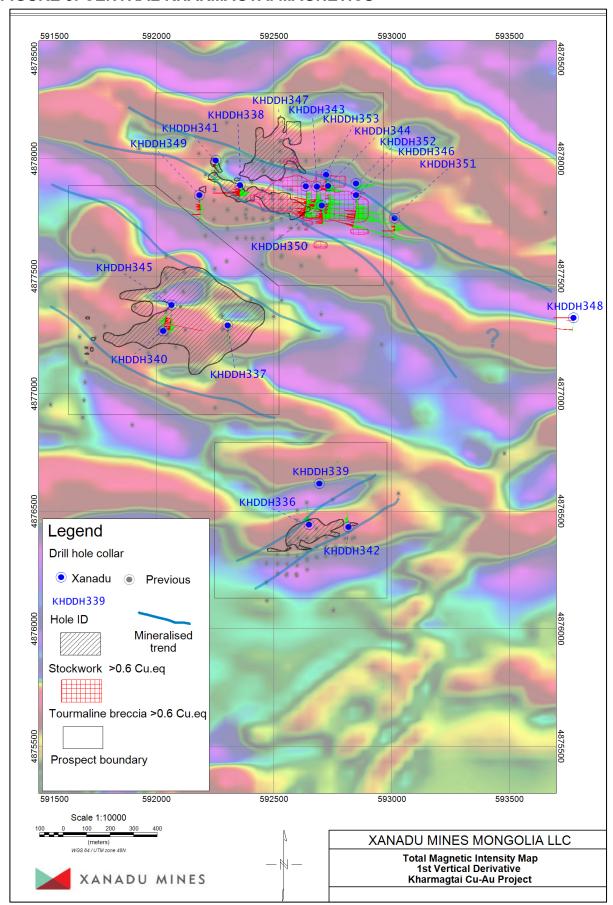




FIGURE 3: CENTRAL KHARMAGTAI MAGNETICS



APPENDIX 1: KHARMAGTAI TABLE 1 (JORC 2012)

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 Turquoise Hill and Xanadu. This Table 1 updates the JORC Table 1 disclosure dated 5 September 2014.

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

(Criteria in this section apply to all succeeding sections).

Criteria	JORC Code Explanation	Commentary
Sampling techniques	 Nature and quality of sampling and assaying. 	The resource estimate is based on drill samples only.
	Measures taken to ensure sample representivity and the appropriate	 Representative 2 metre samples were taken from ½ NQ or HQ) or diamond.
	 calibration of any measurement tools or systems used. Aspects of the determination of mineralisation that are Material to the Public Report. 	 Only assay result results from recognised, independent assay laboratories were
		used in Resource calculation after QAQC was verified.
Drilling techniques	Drill type and details.	 DDH drilling has been the primary drilling method.
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. 	DDH core recoveries have been very good, averaging between 97% and 99% for all of the deposits. In localized areas
	 Measures taken to maximise sample recovery and ensure representative nature of the samples. 	of faulting and/or fracturing the recoveries decrease; however this is a very small percentage of the overall mineralised zones.
	 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. 	 Recovery measurements were collected during all DDH programs. The methodology used for measuring recovery is standard industry practice.
	material.	 Analysis of recovery results vs. grade indicates no significant trends. Indicating bias of grades due to diminished recovery and / or wetness of samples.
Logging	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.	Drill samples are logged for lithology, mineralisation and alteration and geotechnical aspects using a standardised logging system, including the recording of visually estimated volume
	 Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography. 	percentages of major minerals.Drill core was photographed after being logged by a geologist.
	The total length and percentage of the relevant intersections logged.	The entire interval drilled has been logged by a geologist.
Sub-sampling techniques and	If core, whether cut or sawn and whether	DDH Core is cut in half with a diamond

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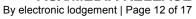
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 Assay results outside the optimal range for methods were re-analysed by



Criteria	JORC Code Explanation	Commentary
sample preparation	 quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry. 	saw, following the line marked by the geologist. The rock saw is regularly flushed with fresh water. • Sample intervals are a constant 2m interval down-hole in length.
	 For all sample types, the nature, quality and appropriateness of the sample preparation technique. Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 	 Routine sample preparation and analyses of DDH samples were carried out by SGS Mongolia LLC (SGS Mongolia), who operates an independent sample preparation and analytical laboratory in Ulaanbaatar.
	 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. Whether sample sizes are appropriate to 	 All samples were prepared to meet standard quality control procedures as follows: Crushed to 90% passing 3.54 mm, split to 1kg, pulverised to 90% - 95% passing 200 mesh (75 microns) and split to 150g.
	the grain size of the material being sampled.	Certified reference materials (CRMs), blanks and pulp duplicate were randomly inserted to manage the quality of data
		 Sample sizes are well in excess of standard industry requirements.
Quality of assay data and laboratory tests		All samples were routinely assayed by SGS Mongolia for gold, copper, silver, lead, zinc, arsenic and molybdenum.
		 Au is determined using a 30g fire assay fusion, cupelled to obtain a bead, and digested with Aqua Regia, followed by an atomic absorption spectroscopy (AAS) finish, with a lower detection (LDL) of 0.01 ppm. Cu, Ag, Pb, Zn, As and Mo were routinely
	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	determined using a three-acid-digestion of a 0.3g sub-sample followed by an AAS finish (AAS21R). Samples are digested with nitric, hydrochloric and perchloric acids to dryness before leaching with hydrochloric acid to dissolve soluble salts and made to 15ml volume with distilled water. The LDL for copper using this technique was 2ppm. Where copper is over-range (>1% Cu), it is analysed by a second analytical technique (AAS22S), which has a higher upper detection limit (UDL) of 5% copper.
		 Quality assurance was provided by introduction of known certified standards, blanks and duplicate samples on a routine basis.







Criteria	JORC Code Explanation	Commentary
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. 	 appropriate methods. Ore Research Pty Ltd certified copper and gold standards have been implemented as a part of QAQC procedures, as well as coarse and pulp blanks, and certified matrix matched coppergold standards. QAQC monitoring is an active and ongoing process on batch by batch basis by which an acceptable results are reassayed as soon as practicable. All assay data QAQC is checked prior to loading into the GeoBank data base. The data is managed XAM geologists. The data base and geological interpretation is collectively managed by XAM.
Location of data points	 Discuss any adjustment to assay data. Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. Specification of the grid system used. Quality and adequacy of topographic control. 	 All DDH's have been surveyed with a differential global positioning system (DGPS) to within 10cm accuracy. All DDH's have been down hole surveyed to collect the azimuth and inclination at specific depths. Two principal types of survey method have been used over the duration of the drilling programs including Eastman Kodak and Flexit. UTM WGS84 48N grid. The DTM is based on 1 m contours with an accuracy of ±0.01 m.
Data spacing and distribution	 Data spacing for reporting of Exploration Results. 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. Whether sample compositing has been applied. 	Vertical spacing of intercepts on the mineralised zones similarly commences





Criteria	JORC Code Explanation	Commentary
		sufficient to establish geological and grade continuity appropriate for the Mineral Resource estimation procedure and has been taken into account in 3D space when determining the classifications to be applied.
Orientation of data in relation to geological structure	 Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	 Drilling has been predominantly completed on north-south section lines along the strike of the known mineralised zones and from either the north or the south depending on the dip. Vertical to South dipping ore bodies were predominantly drilled to the north. Scissor Drilling, (drilling from both north and south), as well as vertical drilling, has been used in key mineralised zones to achieve unbiased sampling of possible structures and mineralised zones.
Sample security	The measures taken to ensure sample security.	 Samples are dispatched from site through via company employees to the Laboratories. Samples are signed for at the Laboratory with confirmation of receipt emailed through. Samples are then stored at the lab and returned to a locked storage site.
Audits or reviews	The results of any audits or reviews of sampling techniques and data	 Internal audits of sampling techniques and data management on a regular basis, to ensure industry best practice is employed at all times. External review and audit have been conducted by the following groups 2012 – AMC Consultants Pty Ltd. was engaged to conduct an Independent Technical Report which reviewed drilling and sampling procedures. It was concluded that sampling and data record was appropriate for use in resource estimation including that required by the NI 43-101 standards. 2013 - Mining Associates Ltd. was engaged to conduct an Independent Technical Report to review drilling, sampling techniques, QAQC and previous resource estimates. Methods were found to conform to international best practice.

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

(Criteria in this section apply to all succeeding sections).

Criteria	JORC Code Explanation	Commentary
Mineral tenement and land tenure status	 Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. 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. 	 The Project comprises 1 Mining Licences (MV 17387A). 100% owned by Oyut Ulaan LLC. THR Oyu Tolgoi Ltd (a wholly owned subsidiary of Turquoise Hill Resources Ltd owns 90% of Oyut Ulaan LLC. The remaining 10% is owned by Quincunx Ltd, which in turn is owned by an incorporated joint venture between Kerry Holdings Ltd. and MCS Holding LLC. The Mongolian Minerals Law (2006 and Mongolian Land Law (2002) govern exploration, mining and land use rights for the project.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Previous exploration was conducted by Quincunx Ltd, Ivanhoe Mines Ltd and Turquoise Hill Resources Ltd including extensive drilling, surface geochemistry, geophysics, mapping and mineral resource estimation to NI 43-101 standards.
Geology	Deposit type, geological setting and style of mineralisation.	 The mineralisation is characterised as porphyry copper-gold type. Porphyry copper-gold deposits are formed from magmatic hydrothermal fluids typically associated with felsic intrusive stocks that have deposited metals as sulphides both within the intrusive and the intruded host rocks. Quartz stockwork veining is typically associated with sulphides occurring both within the quartz veinlets and disseminated thought out the wall rock. Porphyry deposits are typically large tonnage deposits ranging from low to high grade and are generally mined by large scale open pit or underground bulk mining methods. The deposits at Kharmagtai are atypical in that they are associated with intermediate intrusions of diorite to quartz diorite composition, however the deposits are in terms of contained gold significant, and similar gold-rich porphyry deposits.
Drill hole information	 A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill 	 Diamond drill holes are the principal source of geological and grade data for the Project.



Criteria **JORC Code Explanation**

Commentary

holes:

- easting and northing of the drill hole collar.
- elevation or RL Reduced Level elevation above sea level in metres) of the drill hole collar.
- dip and azimuth of the hole
- down hole length and interception
- hole length.
- 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.

	Diamond Drilling		
Year	Prospect	No. Holes	Meters
2002	AT	18	6,234.90
	TS	17	6,233.80
	ZU	41	10,175.50
	Regional	7	2,429.60
2003	AT	18	5,127
2004	AT	22	8,519.25
2004	Regional	6	2,234.00
	AT	2	495.55
2005	TS	4	1,415.40
	ZU	2	844.25
2007	AT	4	1,415.40
	TS	1	496.20
2007	ZU	1	300
	Regional	9	2,804.10
2011	AT	7	5,890.60
	TS	2	1,781.20
	ZU	1	549.70
	Regional	9	6,824.10
2014	AT	14	7,795.10
	TS	3	1,293.85
	ZU	3	531.70
	Regional	1	380.70
	Total	192	73,894.80

Data aggregation methods

- In reporting Exploration Results, weighting averaging techniques. maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.
- 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.
- The assumptions used for any reporting of metal equivalent values should be clearly stated.

- A nominal cutoff of 0.1% Cu is used for identification of potentially significant intercepts for reporting purposes.
- Most of the reported intercepts are shown in sufficient detail, including maxima and subintervals, to allow the reader to make an assessment of the balance of high and low grades in the intercept.
- Informing Samples have been composited to two metre lengths honouring the geological domains and adjusted where necessary to ensure that no residual sample lengths have been excluded (best fit).
- The copper equivalent (CuEq) calculation represents the total metal value for each metal, multiplied by the conversion factor, summed and expressed in equivalent





between important in the mineralization Results.	nips are particularly reporting of Exploration	b rr gg aa co aa co lk aa (() F A	copper percentage. Grades have not been adjusted for metallurgical or refining recoveries and the copper equivalent grades are of an exploration nature only and intended for summarising grade. The copper equivalent calculation is intended as an indicative value only. The following copper equivalent conversion factors and ong term price assumptions have been adopted: Copper Equivalent Formula CuEq) = Cu% + (Au (ppm) x 0.6284); Price assumptions: Cu (US\$3.20lb) and Au (US\$1,375oz).
between important in the mineralization Results. on widths and	reporting of Exploration	C	Mineralised structures are variable in
	rill hole angle is known, its	0	orientation, and therefore drill orientations have been adjusted from place to place in order to allow intersection angles as close as possible to true widths.
nature should be If it is not known lengths are repo	nature should be reported.	• E a ta T	Exploration results have been reported as an interval with 'from' and 'to' stated in ables of significant economic intercepts. Tables clearly indicate that true widths will generally be narrower than those reported.
			Resource estimation, as reported later, was done in 3D space.
scales) and tabu should be includ discovery being		• §	See figures in main report.
reporting Exploration Residence representative resulting high grades and	ensive reporting of all ults is not practicable, eporting of both low and l/or widths should be id misleading reporting of ults.	C	Results have been reported at a range of cut-off grades, above a minimum suitable for open pit mining.
substantive exploration data material, should (but not limited toobservations; geochemical sur) – size and methometallurgical test groundwater, geochemicals and methometallurgical test groundwater, geochemicals and methometallurgical test groundwater, geochemicals and methods are supported by the substantial provides and methods are supported by the substantial provides and material, should (but not limited to observations; geochemical supported by the substantial provides and methods are substantial provides and meth	eophysical survey results; rvey results; bulk samples od of treatment; st results; bulk density, eotechnical and rock potential deleterious or	d	Extensive work in this area has been done, and is reported separately.
work (eg tests fo	scale of planned further or lateral extensions or s or large-scale step-out	а	The mineralisation is open at depth and along strike. Current estimates are restricted to those





Criteria	JORC Code Explanation	Commentary
	 drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive 	expected to be reasonable for open pit mining. Limited drilling below this depth (-300m rl) shows widths and grades potentially suitable for underground extraction. • Exploration on going.