



# AEM SURVEY HIGHLIGHTS EXCITING NEW HAVIERON STYLE GOLD-COPPER TARGETS

## **ANTIPA – NEWCREST WILKI FARM-IN PROJECT**

## Highlights

- Aerial electromagnetic (AEM) geophysical survey defines multiple new targets on the Antipa-Newcrest Wilki Farm-in Project within the Paterson Province of WA
- Three high priority preliminary targets identified within 10 to 44km of high-grade Havieron gold-copper deposit and Telfer gold-copper mine and processing facility
- Some targets have similar characteristics to high-grade Havieron gold-copper deposit
- AEM surveys have resulted in several significant discoveries in the Paterson Province by identifying conductors representing gold and/or copper mineralisation
- Drill testing of identified AEM and magnetic targets planned to commence in October
- Exploration programme aimed at discovering similar style mineralised systems to nearby Telfer, Havieron, Winu and Nifty deposits

Antipa Minerals Limited (ASX: **AZY**) (**Antipa** or the **Company**) is pleased to provide an update in relation to the Wilki Farm-in Project 2020 Exploration Programme (**Wilki 2020 Exploration Programme**) in Western Australia's Paterson Province (Figure 1).

The Wilki 2020 Exploration Programme consists of two phases (refer to ASX release dated 20 July) of greenfield exploration to be operated by Antipa and fully funded by Newcrest Operations Limited (**Newcrest**). Under the terms of the Wilki Project Farm-in Agreement entered into with Newcrest on 28 February, Newcrest is required to fund a minimum of \$6 million of exploration expenditure, inclusive of management fees, within two years.

## Phase 1 Exploration Programme

Available results for the Phase 1 greenfield exploration programme, which is planned for completion in the September 2020 quarter, are summarised below.

### 2020 AEM Survey

A large 1,200km<sup>2</sup> (4,755 line-km at a 250m line spacing) SkyTEM<sup>™</sup> AEM survey has been carried out over areas not previously covered by modern AEM. The aim of the survey is to identify gold-copper targets, including high-grade targets, beneath shallow cover. (Figure 2). The AEM survey included a region of the El Paso Structural Corridor coming to within 9km of the Havieron high-grade gold-copper deposit. AEM has been instrumental in several significant Paterson Province discoveries.

Preliminary processing and review of initial AEM survey results has identified three high priority targets as summarised below and by Figures 3, 4, 5 and 6, with the review of additional targets ongoing. The three high priority targets are located within 10 to 37 km of the Havieron deposit and

12 to 44 km of Telfer's processing facility. Final processing and review of the AEM survey results to be carried out upon receipt of the final survey data.

#### 2020 AEM Survey - Targets

- AEM20-01/NP37 (Grilla prospect) = 700 x 500m magnetic high and two partially coincident bull's-eye AEM late-time conductivity highs and partially co-incident gravity high anomaly (Figure 3 and 6a):
  - Located 45km NE of Telfer and 37km NNW along strike of Havieron
  - Proximal to major NW trending structure linking the Havieron gold-copper deposit and Winu copper-gold deposit
  - Less than 60m of cover
  - Three of four 70m historic drill holes immediately north of the AEM anomaly returned 1m intervals grading between 0.12 to 0.57 g/t gold
- **AEM20-02** = 800 x 600m partially coincident bull's-eye AEM late-time conductivity high and gravity high anomaly (Figure 4 and 6b):
  - Located 12km and 5km west of the Telfer and Fallows gold-copper mines respectively
  - Located just 3km and 6km NW along strike from the Joy's Gossan and Hasties goldcopper-arsenic mineral systems respectively, which represent a 13km long brecciated, hydrothermally altered, and mineralised trend
  - Situated on a possible thrust ramp structure
  - Shallow cover
  - Area has very limited nearby and ineffective 40 to 67m deep historic air core drilling
- **AEM20-03 =** 1.2km bull's-eye AEM subtle late-time conductivity high and associated disrupted linear magnetic high anomalies (Figure 5 and 6c):
  - Located 10km west of Havieron
  - Situated on possible Havieron stratigraphic equivalent
  - Concealed beneath paleochannel cover (depth unknown > 68m)
  - Area with only one nearby historic air core drill hole which did not reach basement

#### 2019 AEM Survey – Intrepid Re-processing

Intrepid Geophysics (**Intrepid**) re-processing and interpretation of the data from the AEM survey completed by Antipa in 2019, using proprietary 2.5D inversion MOKSHA-EM software has identified six additional EM conductivity targets which are the subject of ongoing review and will be reported in more detail once finalised.

#### Remaining Phase 1 Exploration Programme

The remaining Phase 1 greenfield exploration programme consists of the following work to be completed by the end of September 2020:

- Ongoing review of AEM results in conjunction with other data.
- Planning for drill testing of high priority AEM and magnetic targets.
- Aeromagnetic survey covering 800km<sup>2</sup> and 8,000 line-km at a 100m line spacing over areas requiring enhanced magnetic resolution, including over the Grilla magnetic and potential AEM target.

- Ground based gravity survey over selected target areas aimed at identifying gold-copper targets beneath areas of deeper cover, recently completed with data pending.
- Intrepid processing and interpretation of the data from the 2020 AEM survey pending delivery of final AEM data.
- An ongoing review and interpretation of historic exploration data to enhance geological modelling, and potentially identify further target areas for gold-copper mineralisation.

#### Phase 2 Exploration Programme

The Phase 2 greenfield exploration programme to be completed this calendar year (subject to the appropriate approvals) includes the drill testing of high priority gold-copper targets identified during Phase 1. The exploration will consist of:

- Heritage survey scheduled to be carried out during the first half of September.
- Reverse Circulation (RC) ± diamond core drill programmes testing priority targets under shallow cover, including Havieron high-grade gold-copper analogue magnetic and AEM conductivity anomalies, including Grilla.

These high priority targets, including nine magnetic (refer to ASX release dated 20 July) and three electromagnetic targets (Figure 7), share some or all of the following characteristics with the high-grade Havieron gold-copper deposit (Figure 8):

- Located within the fertile El Paso Structural Corridor, which hosts the Havieron, Winu and Minyari-WACA deposits, displaying favourable structures (including folding and shearing / faulting)
- Bull's-eye to sub-circular magnetic high anomaly
- AEM conductivity high anomaly
- Interpreted meta-sedimentary host rocks including possible Havieron type lithologies
- Related gravity high / shoulder anomaly

The Wilki 2020 Exploration Programme is subject to continuous monitoring and will be adjusted according to results and field conditions, and has been designed to ensure the safety and wellbeing of all Wilki Project stakeholders including local indigenous groups, employees, and contractors and to also comply with government restrictions aimed at stopping the spread of the COVID-19 virus.

The Wilki 2020 Exploration Programme will be subject to ongoing review based on results, field conditions, contractor availability and pricing and other relevant matters.

Release authorised by Stephen Power Executive Chairman

For further information, please visit <u>www.antipaminerals.com.au</u> or contact:

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Figure 1: Plan showing location of Antipa 100% owned tenements, Antipa-Rio Tinto Citadel Joint Venture, Antipa-Newcrest Wilki Farm-in, Antipa-IGO Paterson Farm-in, Newcrest Mining Ltd's Telfer Mine and O'Callaghans deposit, Rio Tinto's Winu deposit, Greatland Gold plc's/Newcrest's Havieron deposit, and Metals X Nifty Mine. Blue-dashed region relates to Wilki Project AEM survey areas outlined by Figure 2.

NB: Rio and IGO tenement areas include related third-party Farm-In's. NB: Regional GDA2020 / MGA Zone 51 co-ordinates, 50km grid.



Figure 2: Plan showing location of Wilki Project AEM survey areas and 2020 high-priority (preliminary) electromagnetic conductivity targets. NB: Regional GDA2020 / MGA Zone 51 co-ordinates, 20km grid.



Figure 3: Plan showing high-priority (preliminary) electromagnetic conductivity (left image – SkyTEM Channel 35 High Moment) and magnetic (right image) target AEM20-01/NP37/Grilla located 45km NE of Telfer and 37km NNW along strike of Havieron and under less than 60m of cover. Drill holes are historic. NB: Regional GDA2020 / MGA Zone 51 co-ordinates, 2km grid.



Figure 4: Plan showing high-priority (preliminary) electromagnetic conductivity (SkyTEM Channel 35 High Moment) target AEM20-02 over satellite image, situated under shallow cover located 12km and 5km west of the Telfer and Fallows gold-copper mines respectively and located just 3km and 6km NW along strike from the Joy's Gossan and Hasties gold-copper-arsenic mineral systems respectively, which represent a 13km long brecciated, hydrothermally altered, and mineralised trend. Drill holes are historic. NB: Regional GDA2020 / MGA Zone 51 co-ordinates, 5km grid.



Figure 5: Plan showing high-priority (preliminary) electromagnetic conductivity (SkyTEM Channel 35 High Moment) and magnetic target AEM20-03 located 10km west of Havieron situated on possible Havieron stratigraphic equivalent, Concealed beneath paleochannel cover. NB: Regional GDA2020 / MGA Zone 51 co-ordinates, 5km grid.



Figure 6a: AEM20-01 SkyTEM flight-line electromagnetic conductivity anomaly outlined by blue box







Figure 6c: AEM20-03 SkyTEM flight-line electromagnetic conductivity anomaly outlined by blue box



Figure 7: Plan showing Wilki Project high-priority Havieron lookalike aeromagnetic and (preliminary) electromagnetic conductivity targets identified for drill testing. NB: Over Airborne magnetic image; TMI-RTP pseudo-colour NESUN and Regional GDA2020 / MGA Zone 51 co-ordinates, 50km grid.



# Figure 8 (left to right): Havieron deposit oblique view of high-grade gold-copper arcuate sulphide rich breccia zone, deposit cross-section and sulphide rich breccia drill core highlighting the conductive, dense, and magnetic (pyrrhotite) mineralisation style.

NB: Greatland Gold's Havieron deposit is the subject of a farm-in and joint venture agreement with Newcrest Mining Ltd able to earn up to a 70% joint venture interest via total expenditure of US\$65m (Refer to ASX and AIM releases 12 March 2019 and 11 June 2020 status update). For Figure 4 images refer to Greatland Gold plc's website (www.greatlandgold.com) and London Stock Exchange (AIM: GGP www.londonstockexchange.com) news releases and Newcrest Mining Ltd' website (www.newcrest.com.au) and Australian Stock Exchange (ASX: NCM www.asx.com.au) news releases (including 30 April and 11 June 2020).

About Antipa Minerals: Antipa is a mineral exploration company focused on the Paterson Province in north-west Western Australia, home to Newcrest Mining's world-class Telfer gold-copper mine, Rio Tinto's Winu copper-gold deposit, Greatland Gold-Newcrest's recent Havieron gold-copper discovery and other significant mineral deposits. Having first entered the Paterson in 2011 when it was a less sought-after exploration address, the Company has used its early mover advantage to build an enviable tenement holding of approximately 5,200km<sup>2</sup>, including the 1,316km<sup>2</sup> Citadel Project that is subject to a \$60 million Farm-in and Joint Venture Agreement with Rio Tinto (who currently holds a 51% joint venture interest), the 2,180km<sup>2</sup> Wilki Project that is subject to a \$60 million Farm-in and Joint Venture Agreement with Newcrest (who is yet to earn a joint venture interest) and the 1,563km<sup>2</sup> Paterson Project that is subject to a \$30 million Farm-in and Joint Venture Agreement with IGO (who is yet to earn a joint venture interest). Antipa 100% retains 144km<sup>2</sup> of the Minyari Dome, which hosts the Minyari-WACA Mineral Resources plus other deposits and high quality exploration targets. Unlike certain parts of the Paterson where the post mineralisation (younger) cover can be kilometres thick, making for difficult exploration, the Company's tenements feature relatively shallow cover; approximately 80% are under less than 80 metres of cover. The Citadel Project lies within 5km of the Winu discovery and contains a Mineral Resource of 1.64 million ounces of gold and 128,000 tonnes of copper from two deposits, Calibre and Magnum. The Company retains 144km<sup>2</sup> of 100%-owned tenements which contains an additional established Mineral Resource, with the Minyari and WACA deposits containing 723,000 ounces of gold and 26,000 tonnes of copper. Extensive drilling and geophysical surveys are planned for 2020 across Antipa's combined Paterson tenement portfolio as the company pursues a dual strategy of targeting tier-one greenfields discoveries and growing its existing resources through brownfields exploration.



**Forward-Looking Statements:** This document may include forward-looking statements. Forward-looking statements include, but are not limited to, statements concerning Antipa Mineral Ltd's planned exploration programme and other statements that are not historical facts. When used in this document, the words such as "could," "plan," "estimate," "expect," "intend," "may," "potential," "should," and similar expressions are forward-looking statements. Although Antipa Minerals Ltd believes that its expectations reflected in these forward-looking statements are reasonable, such statements involve risks and uncertainties and no assurance can be given that actual results will be consistent with these forward-looking statements.

**Competent Persons Statement – Exploration Results:** The information in this document that relates to Exploration Results is based on and fairly represents information and supporting documentation compiled by Mr Roger Mason, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Mason is a full-time employee of the Company. Mr Mason is the Managing Director of Antipa Minerals Limited, is a substantial shareholder of the Company and is an option holder of the Company. Mr Mason has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaking 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'. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements, all of which are available to view on <u>www.antipaminerals.com.au</u> and <u>www.asx.com.au</u>. Mr Mason, whose details are set out above, was the Competent Person in respect of the Exploration Results in these original market announcements.

Various information in this report which relates to Exploration Results have been extracted from the following announcements:

- Report entitled "Calibre and Magnum Deposit Mineral Resource JORC 2102 Updates" created on 23 February 2015;
- Report entitled "Minyari/WACA Deposits Maiden Mineral Resource" created on 16 November 2017;
- Report entitled "Calibre Deposit Mineral Resource Update" created on 17 November 2017;
- Report entitled "Antipa to Commence Major Exploration Programme" created on 1 June 2018;
- Report entitled "Major Exploration Programme Commences" created on 25 June 2018;
- Report entitled "2018 Exploration Programme Update" created on 16 July 2018;
- Report entitled "2018-19 Exploration Programme Overview and Update August" created on 15 August 2018;
- Report entitled "Multiple High Grade Gold-Copper Targets Identified" created on 15 October 2018;
- Report entitled "Expanded Greenfield Programme in Paterson Province Commences" created on 10 December 2018;
- Report entitled "Resource Growth Potential and Additional Brownfields Targets" created on 11 December 2018;
- Report entitled "Greenfield Programme Identifies Havieron Lookalike Anomalies" created on 14 February 2019;
- Report entitled "Antipa to Commence Major Greenfields Exploration Programme" created on 18 February 2019;
- Report entitled "Major Greenfields Drilling Programme Commences" created on 7 May 2019;
- Report entitled "Chicken Ranch and Tims Dome Maiden Mineral Resources" created on 13 May 2019;
- Report entitled "Exploration Update 100% Owned Paterson Province Tenure" created on 22 August 2019;
- Report entitled "Multiple New Gold-Copper Targets on 100% Owned Ground" created on 23 December 2019;
- Report entitled "AZY: \$60m Farm-in and \$3.9m Share Placement with Newcrest" created on 28 February 2020; and
- Report entitled "Antipa/Newcrest Wilki Farm-in Project Exploration Update" created on 20 July 2020.

All of which are available to view on <u>www.antipaminerals.com.au</u> and <u>www.asx.com.au</u>.

The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements. Mr Roger Mason, whose details are set out above, was the Competent Person in respect of the Exploration Results in these original reports.

**Competent Persons Statement – Mineral Resource Estimations for the Minyari-WACA Deposits, Tim's Dome and Chicken Ranch Deposits, Calibre Deposit and Magnum Deposit:** The information in this document that relates to relates to the estimation and reporting of the Minyari-WACA deposits Mineral Resources is extracted from the report entitled *"Minyari/WACA Deposits Maiden Mineral Resources"* created on 16 November 2017 with Competent Persons Kahan Cervoj and Susan Havlin, the Tim's Dome and Chicken Ranch deposits Mineral Resources is extracted from the report entitled *"Chicken Ranch and Tims Dome Maiden Mineral Resources"* created on 13 May 2019 with Competent Person Shaun Searle, the Calibre deposit Mineral Resource information is extracted from the report entitled *"Calibre Deposit Mineral Resource Update"* created on 17 November 2017 with Competent Person John Graindorge and the Magnum deposit Mineral Resource information is extracted from the report entitled *"Calibre and Magnum Deposit Mineral Resource JORC 2012 Updates"* created on 23 February 2015 with Competent Person Patrick Adams, all of which are available to view on www.antipaminerals.com.au and www.asx.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

**Gold Metal Equivalent Information - Calibre Mineral Resource AuEquiv cut-off grade:** Gold Equivalent (AuEquiv) details of material factors and metal equivalent formula are reported in *"Calibre Deposit Mineral Resource Update"* created on 17 November 2017 which is available to view on <u>www.antipaminerals.com.au</u> and <u>www.asx.com.au</u>.

**Gold Metal Equivalent Information - Magnum Mineral Resource AuEquiv cut-off grade:** Gold Equivalent (AuEquiv) details of material factors and metal equivalent formula are reported in *"Citadel Project - Calibre and Magnum Deposit Mineral Resource JORC 2012 Updates"* created on 23 February 2015 which is available to view on <u>www.antipaminerals.com.au</u> and <u>www.asx.com.au</u>.

## **Mineral Resource Estimates**

#### North Telfer Project (100% Antipa)

Deposit and Gold Cut-off Grade*	Resource Category	Tonnes (Mt)	Gold Grade (g/t)	Copper Grade (%)	Silver Grade (g/t)	Cobalt (ppm)	Gold (oz)	Copper (t)	Silver (oz)	Cobalt (t)
Minyari 0.5 Au	Indicated	3.2	1.9	0.3	0.7	590	192,610	9,600	75,660	1,860
Minyari 0.5 Au	Inferred	0.7	1.7	0.24	0.6	340	36,260	1,560	13,510	220
Minyari 0.5 Au	Sub-Total	3.8	1.9	0.29	0.7	550	228,870	11,160	89,170	2,080
Minyari 1.7 Au	Indicated	.2	2.6	0.29	0.9	430	18,740	650	6,800	100
Minyari 1.7 Au	Inferred	3.7	2.6	0.3	1.0	370	303,000	10,950	117,550	1,360
Minyari 1.7 Au	Sub-Total	3.9	2.6	0.3	1.0	380	321,740	11,600	124,350	1,460
Minyari	Total	7.7	2.2	0.3	0.9	460	550,610	22,760	213,520	3,540
WACA 0.5 Au	Inferred	2.8	1.4	0.11	0.2	180	121,950	3,120	15,920	500
WACA 1.7 Au	Inferred	0.5	2.9	0.09	0.2	230	50,780	510	3,850	120
WACA	Total	3.3	1.6	0.11	0.2	190	172,730	3,630	19,770	620
Minyari + WACA Deposits	Grand Total	11.0	2.0	0.24	0.7	380	723,340	26,390	233,290	4,060
North Telfer + Paterson Projects – Gold Only	Grand Total	13.5	1.9	-	-	-	826,840	-	-	-

\*0.5 Au = Using a 0.5 g/t gold cut-off grade above the 50mRL (NB: potential "Open Cut" cut-off grade) and \*1.7 Au = Using a 1.7 g/t gold cut-off grade below the 50mRL (NB: potential "Underground" cut-off grade)

#### Wilki Project (Newcrest Farm-in)

Deposit and Gold Cut-off Grade**	Resource Category	Tonnes (Mt)	Gold Grade (g/t)	Copper Grade (%)	Silver Grade (g/t)	Cobalt (ppm)	Gold (oz)	Copper (t)	Silver (oz)	Cobalt (t)
Chicken Ranch Area 0.5 Au	Inferred	0.8	1.6	-	-	-	40,300	-	-	-
Tim's Dome 0.5 Au	Inferred	1.8	1.1	-	-	-	63,200	-	-	-
Chicken Ranch Area + Tim's Dome	Total	2.4	1.3	-	-	-	103,500	-	-	-

\*\*0.5 Au = Using a 0.5 g/t gold cut-off grade above the 50mRL (NB: potential "Open Cut" cut-off grade) Note: Wilki Proj

Note: Wilki Project Mineral Resources are tabled on a 100% basis, with Antipa's current joint venture interest being 100%

#### Citadel Project (Rio Tinto JV)

Deposit and Gold Cut-off Grade***	Resource Category	Tonnes (Mt)	Gold Grade (g/t)	Copper Grade (%)	Silver Grade (g/t)	Tungsten (ppm)	Gold (oz)	Copper (t)	Silver (oz)	Tungsten (t)
Calibre 0.5 Au Equiv	Inferred	47.7	0.9	0.15	0.5	217	1,300,000	69,500	730,000	10,300
Magnum 0.5 Au Equiv	Inferred	16.1	0.7	0.37	1.0		339,000	57,800	511,000	
Calibre + Magnum Deposits	Total	63.8	0.8	0.2	0.6	161	1,639,000	127,300	1,241,000	10,300

\*\*\*0.5 AuEquiv = Refer to details provided by the Notes section

Note: Citadel Project Mineral Resources are tabled on a 100% basis, with Antipa's current joint venture interest being 49%

### ANTIPA – NEWCREST WILKI FARM-IN PROJECT PATERSON PROVINCE – 2020 Airborne Electromagnetic and Magnetic Survey

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	C	ommentary
Sampling techniques	CriteriaJORC Code explanationiampling echniques• Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as 	<ul> <li>An Airborne Electromagnetic and Magnet Ltd (SkyTEM), an independent geophysic</li> <li>The survey employed the following equip</li> <li>Survey Type = Time Domain Air moment, SkyTEM-312 time-do Magnetics:</li> </ul> Electromagnetic System           Type           Weight           Structure           Aircraft Type           Engine Type           Fuel Type           CPU	tic Survey was undertaken in 2020 by SkyTEM Australia Pty al contractor/service provider. oment and sampling techniques: rborne Electromagnetics (MultiMoment, high and low main, helicopter borne electromagnetic system) and MultiMoment (high and low moment) SkyTEM-312 time-domain 680 kg Rigid AS350B Series Turbine JetA1 Windows OS / SkyTEM Software Intel Atom
		Operation Temperature	-30 to +50°C
		Magnetometer Counter	HIM 25 HZ / LIM 275 HZ
		Туре	Kroum VS – KMAG4
		Internal System Noise	N/A
		Adc Inputs	28VDC
		Magnetometer Inputs	4
		Recording Rate	25 Hz / 12.5 Hz (capable of >1 kHz)
		Magnetometer Sensor	
		Туре	Geometrics G822A
		Measurement Range	20,000 to 100,000 nT
		Gradient Tolerance	N/A
		Operating Temperature	-35°C to +50°C
		Recording Rate	25 Hz / 12.5 Hz (capable of >1 kHz)

<b>O</b> rithmatic			
Criteria	JORC Code explanation		Commentary
		SkyTEM Geometry	
		Rx -Bird GPS	
		Horizontal offset [m] (GPS in front of Rx)	23.66 m
		Vertical offset [m] (GPS higher than Rx)	-1.84 m
		Helicopter - Mag Bird	
		Effective tow rope length in flight [m]	N/A
		Tow rope angle with horizontal [deg]	N/A
		Tow rope vertical [m]	N/A
		Tow rope horizontal [m]	N/A
		Helicopter - Receiver	
		Effective tow rope length in flight [m]	N/A
		Tow rope angle with horizontal [deg]	N/A
		Tow rope vertical [m]	N/A
		Tow rope horizontal [m]	N/A
		Receiver (Z-component)	
		Diameter [m]	50 cm
		Area [m <sup>2</sup> ]	0.2m <sup>2</sup>
		Turns	N/A
		Effective Area [m <sup>2</sup> ]	25m <sup>2</sup>
		Receiver (X-component)	
		Diameter [m]	31cm
		Area [m <sup>2</sup> ]	N/A
		Turns	N/A
		Effective Area [m <sup>2</sup> ]	5.5m <sup>2</sup>
		Bucking Coil	
		Diameter [m]	N/A
		Area [m²]	N/A
		Turns	N/A
		Effective Area [m <sup>2</sup> ]	N/A
		Transmitter	
		Diameter [m]	Hexagon

Criteria	JORC Code explanation	Commen	itary
		_Area [m²]	342 m <sup>2</sup>
		Turns	12 HM / LM
		Effective Area [m <sup>2</sup> ]	2,052m <sup>2</sup> HM / 342m <sup>2</sup> LM
		Transmitter Current	220 - 250 Amp
		Peak Moment	Up to 1,000,000 NIA
		On time	5 ms
		Off time	15 ms
		Transmitter-Receiver	
		the size of the first of sectors [12]	Z= -13.34m
		Horizontal offset of centre [m]	X= -14.65M 
		Vertical offset of centre [m] (Tx below Rx)	X=0m
Drilling techniques	<ul> <li>Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, 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>	<ul> <li>Not applicable to geophysical survey.</li> </ul>	
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise 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>	<ul> <li>Not applicable to geophysical survey.</li> </ul>	
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, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul> <li>Not applicable to geophysical survey.</li> </ul>	
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, 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</li> </ul>	<ul> <li>Not applicable to geophysical survey.</li> </ul>	

Criteria	JORC Code explanation	Commentary
Quality of assay	<ul> <li>stages to maximise 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> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> <li>The nature quality and appropriateness of the assaying and</li> </ul>	The Airborne Electromagnetic and Magnetic Survey was undertaken by SkyTEM Australia Pty Ltd
data and laboratory tests	<ul> <li>laboratory 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, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<ul> <li>(SkyTEM), an independent geophysical contractor/service provider.</li> <li>The survey involved acquisition of airborne data at 250m line spacing, 45.0 degrees clockwise heading from north (i.e. flight lines were orientated approximately perpendicular to the dominant stratigraphic and structural trend).</li> <li>A total of approximately 4,755 line-km was completed during the survey.</li> <li>Nominal survey altitudes of less than 40m EM (i.e. Tx-Rx array), 45m magnetic sensor and 54m (helicopter) was employed which was dependent on safety considerations and dune/tree canopy height.</li> <li>A minimum line length of 3km was utilised for the flight path.</li> <li>The survey covered an area of approximately 1,200km<sup>2</sup>.</li> <li>Review of the data can be summarised by:</li> <li>Data quality was considered to be of high quality.</li> <li>The pilot was of high caliber with impressive line and height following.</li> <li>No gaps "drop outs" were observed in any of the database fields.</li> <li>Filtering of Raw data was minimal and very close to the final product.</li> </ul>
Verification of sampling and assaying	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data</li> </ul>	Not applicable to geophysical survey.
Location of data points	<ul> <li>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.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul> <li>km = kilometre; m = metre; mm = millimetre.</li> <li>Novatel DL-V3L1L2 with real time differential correction (12 satellites), 20 Hz recording rate was used for GPS positioning.</li> <li>The AEM survey coordinates are in WGS84 UTM zone 51S coordinates.</li> <li>Drill hole location not applicable to geophysical survey.</li> </ul>
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</li> </ul>	• The survey involved acquisition of airborne data at 250m line spacing, 45.0 degrees clockwise heading from north.

Criteria	JORC Code explanation	Commentary
	<ul> <li>appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	Not applicable to geophysical survey.
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>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.</li> </ul>	<ul> <li>The survey involved acquisition of airborne data at 45.0 degrees clockwise heading from north (i.e. flight lines were orientated approximately perpendicular to the dominant stratigraphic and structural trend).</li> <li>Drill hole orientation not applicable to geophysical survey.</li> </ul>
Sample security	• The measures taken to ensure sample security.	Not applicable to geophysical survey.
Audits or reviews	<ul> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<ul> <li>All digital Airborne Electromagnetic and Magnetic data was subjected to rigorous auditing and vetting by the independent geophysical contractor/service provider and data manager SkyTEM Australia Pty Ltd (SkyTEM).</li> <li>In addition, all digital Airborne Electromagnetic and Magnetic data was also subjected to an audit and vetting by Newcrest Mining Ltd geophysicists.</li> </ul>