

## HIGH-GRADE GOLD & MULTIPLE ZONES OF COPPER-GOLD MINERALISATION IDENTIFIED AT 100% OWNED GROUND

### Highlights

- Multiple zones of significant copper-gold  $\pm$  zinc mineralisation intersected at four greenfield targets, including:
  - 4.0m at 8.1 g/t gold and 0.23% copper from 194m down hole in 19EPC0020
- New copper-gold trend identified within the El Paso Structural Corridor with drilling confirming the potential for a large-scale discovery
- Phase 2 exploration programme underway and includes:
  - Follow up RC drill testing of further high priority Phase 1 AEM targets;
  - RC drill testing of high-grade gold-copper magnetic targets; and
  - 600km<sup>2</sup> AEM survey and induced polarisation survey to progress regional exploration
- Exploration programme aiming to deliver large-scale discoveries based on Telfer, Winu, Havieron and Nifty analogues

**Antipa Minerals Limited (ASX: AZY) (Antipa or the Company)** is pleased to provide an update in relation to its ongoing exploration programme on its 100% owned ground in the Paterson Province of Western Australia. The Company's recent greenfield exploration drilling activities have continued to deliver success with the discovery of multiple new copper-gold  $\pm$  zinc mineral systems, confirming the highly prospective nature of the Company's tenure. Drilling has confirmed the presence of a new mineralisation trend beneath shallow cover within the El Paso Structural Corridor which extends for approximately 60km across the Company's projects and is likely to lead to the identification of additional priority exploration targets.

### Phase 1 Exploration Programme

The first phase of the 2019 exploration programme comprised 12,262m of Air Core (AC), slim-line RC and Reverse Circulation (RC) drilling (Table 2). The Phase 1 programme systematically tested 26 of 28 greenfield targets identified in 2018 following an aerial electromagnetic (AEM) geophysical survey over a portion of the Company's tenure. Final Phase 1 assay results have now been received, with encouraging results which are being followed up as part of the Phase 2 exploration programme.

### Phase 2 Exploration Programme

The Phase 2 programme which commenced late August, includes up to 9,000m of RC drilling (Table 2) to systematically follow up AEM targets and test a number of aeromagnetic anomalies targeting several Havieron gold-copper deposit lookalike targets.

Geophysical components of the Phase 2 programme include an additional AEM survey covering approximately 600km<sup>2</sup> to define further AEM targets and Gradient Array Induced Polarisation (GAIP) surveys at the Minyari Dome ± Tim's Dome aimed at generating additional greenfield targets and extensions to existing gold-copper resources.

### Summary of Recent Drill Results

Significant mineralisation, including high-grade gold, has been intersected at two AEM targets (Reaper and Grey) and two magnetic targets (Serrano and Poblano); the results are summarised below and by Tables 1a-1b and Figures 1 to 8. Drill hole details are provided by Table 2.

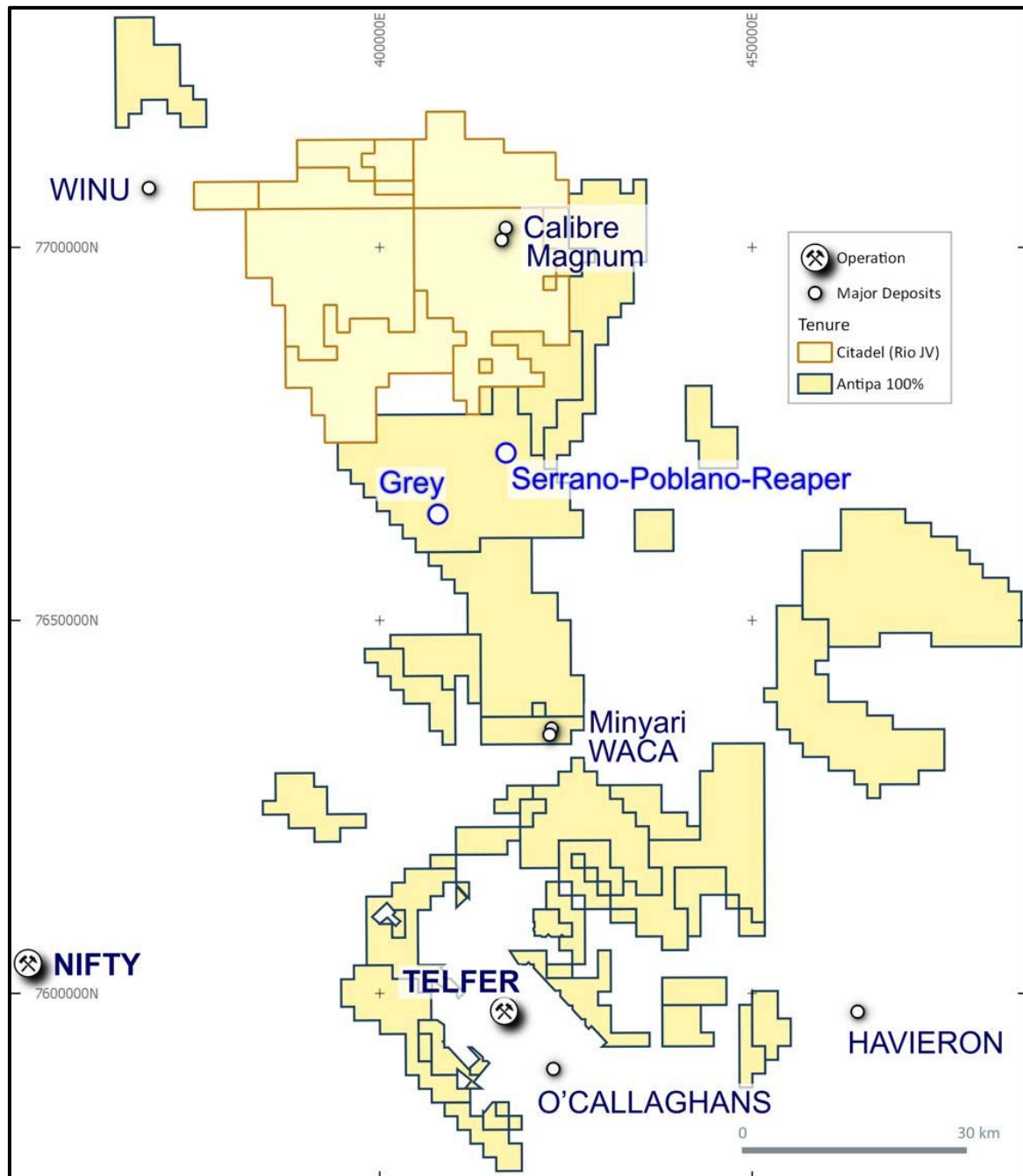


Figure 1: Location plan showing the Company's Paterson Province tenure and location of the Serrano, Poblano, Reaper and Grey prospects in relation to other significant deposits in the province, including Newcrest Mining Ltd's Telfer Mine and O'Callaghans deposit, Greatland Gold plc's Havieron deposit, Rio Tinto's Winu deposit and Antipa's Minyari, WACA and Calibre deposits. NB: Regional GDA94 / MGA Zone 51 co-ordinates, 50km grid.

### *Serrano – Reaper – Poblano Targets*

Drilling has identified a new mineralised trend within the El Paso Structural Corridor (Figure 8), with nine broad spaced RC drill holes intersecting significant gold-copper  $\pm$  zinc mineralisation along a strike length of approximately 1.8km under shallow (10 to 23m) cover at the Reaper (AEM32), Poblano and Serrano targets, located approximately 35km north of the Minyari deposit (Figures 1 and 8). The RC drill traverses are 500m to 800m apart with a drill spacing on section of between 100 to 200m. It is possible that Reaper-Poblano-Serrano are part of the same very large scale mineral system. Follow up RC drilling of this area is planned for late October.

The Serrano and Poblano magnetic targets and Reaper AEM target each returned multiple intervals between 10m to 168m grading up to 1,000 ppm (0.1%) copper with multiple narrower intervals between 1m to 4m grading between 0.1% to 0.5% copper, commonly with associated anomalous zinc  $\pm$  gold  $\pm$  bismuth  $\pm$  lead (Tables 1a-1b and Figures 2 to 6). At Serrano high-grade gold grading 27.4 g/t was intersected within a 1m quartz veined interval containing up to 50% semi-massive sulphide (pyrite > pyrrhotite > chalcopyrite > bismuthinite). Significant Serrano, Reaper and Poblano intersections include:

- **4.0m at 8.1 g/t gold, 0.23% copper, 0.91 g/t silver** and 673 ppm bismuth from 194m down hole in 19EPC0020 (Serrano), including:
  - **1.0m at 27.4 g/t gold, 0.51% copper, 2.35 g/t silver** and 2,200 ppm bismuth
- **168.0m at 0.03 g/t gold, 470ppm copper and 318ppm zinc** from 32m down hole in 19EPC0019 (Poblano), including:
  - **35.0m at 0.07 g/t gold and 0.1% copper** from 45m down hole in 19EPC0019, also including:
    - **12.0m at 0.15 g/t gold and 0.09% copper**

### *Grey (AEM28) Target*

Grey, located approximately 8km southwest of Serrano and 32km north-northwest of the Minyari deposit (Figures 1 and 8), also returned mineralisation grading up to 0.66% copper and 1.53 g/t silver. The Grey EM conductor was modelled as being shallow ENE dipping across a strike length of approximately 900m. Eight shallow Phase 1 drill holes at the Grey AEM target (AEM28) intersected strong Cu-Zn-Co-Au-Ag air core anomalism under shallow cover (10 to 40m) across 350m above the EM target (Figure 7). Three follow up Phase 2 RC drill holes intersected significant regions of shallow northeast dipping hydrothermally altered lithologies, including significant quartz veining and trace to 5% disseminated sulphides (pyrite > pyrrhotite > chalcopyrite) and a 1m thick supergene malachite oxide copper interval grading 0.66% copper (Tables 1a-1b and Figure 7). To evaluate the potential for improvement in the observed mineralisation, two further RC drill holes 250m north and 250m south along strike of the current drill section are planned to be completed at Grey during late October.

### *AEM41 – AEM42 - AEM43 - AEM44 Targets*

Twelve Phase 1 RC drill holes, including three drill holes which were abandoned in the cover, were drilled to test AEM targets AEM41, AEM42, AEM43 and AEM44 which are located between 8 to 15km north of Rio Tinto's large scale copper-gold-silver Winu deposit (Figures 1 and 8). The cover in this area averaged approximately 125m and drilling returned limited weak copper, zinc and cobalt anomalism (Tables 1a-1b). AEM target AEM40, also in this area, could not be accessed due to equipment limitations in traversing multiple steep dune crossings.

## Summary of Geophysical Exploration Activities

Geophysical components of the Phase 2 programme include an additional AEM survey and GAIP surveys aimed at identifying further greenfield targets and extensions to existing gold-copper resources. Targeting using these geophysical surveys, and other data sets, will be conducted in conjunction with independent geophysical consultants Resource Potentials Pty Ltd once the final data is available and processed.

### *AEM Survey*

An AEM survey covering approximately 600km<sup>2</sup> was recently completed using SkyTEM's 312 system with the objective to define further priority greenfield AEM targets and also extensions to existing gold-copper deposits at the Chicken Ranch, Turkey Farm and Triangle areas. AEM has been instrumental in several significant Paterson Province discoveries and this is the first geophysical survey of this type over this area. The results of the AEM survey are expected during the second half of November.

### *GAIP Survey*

GAIP surveys have been planned for the Minyari Dome and Tim's Dome areas with the objective to define further priority greenfield targets and extensions to existing high-grade gold-copper deposits including in the vicinity of the Minyari-WACA Mineral Resources. The Minyari Dome GAIP survey commenced recently, with results expected during late November or early December.

### **Ongoing exploration activities at the Company's 100% Paterson Province Projects include:**

- Greenfield AEM target follow up RC drill testing;
- Greenfield aeromagnetic target RC drill testing;
- RC drill follow up of recent encouraging gold-copper ± zinc results from four targets;
- Target generation, in conjunction with other data, from recently completed AEM survey;
- GAIP survey to identify greenfield targets and extensions to existing gold-copper deposits;
- Ongoing brownfield target evaluation; and
- Paterson Province structural, mineral system and targeting project.

The Phase 2 exploration programme is subject to continuous monitoring and will be adjusted according to results and field conditions. Drill samples will continue to be batched and sent for assay on a periodic basis and announcements will be made periodically as assays are received.

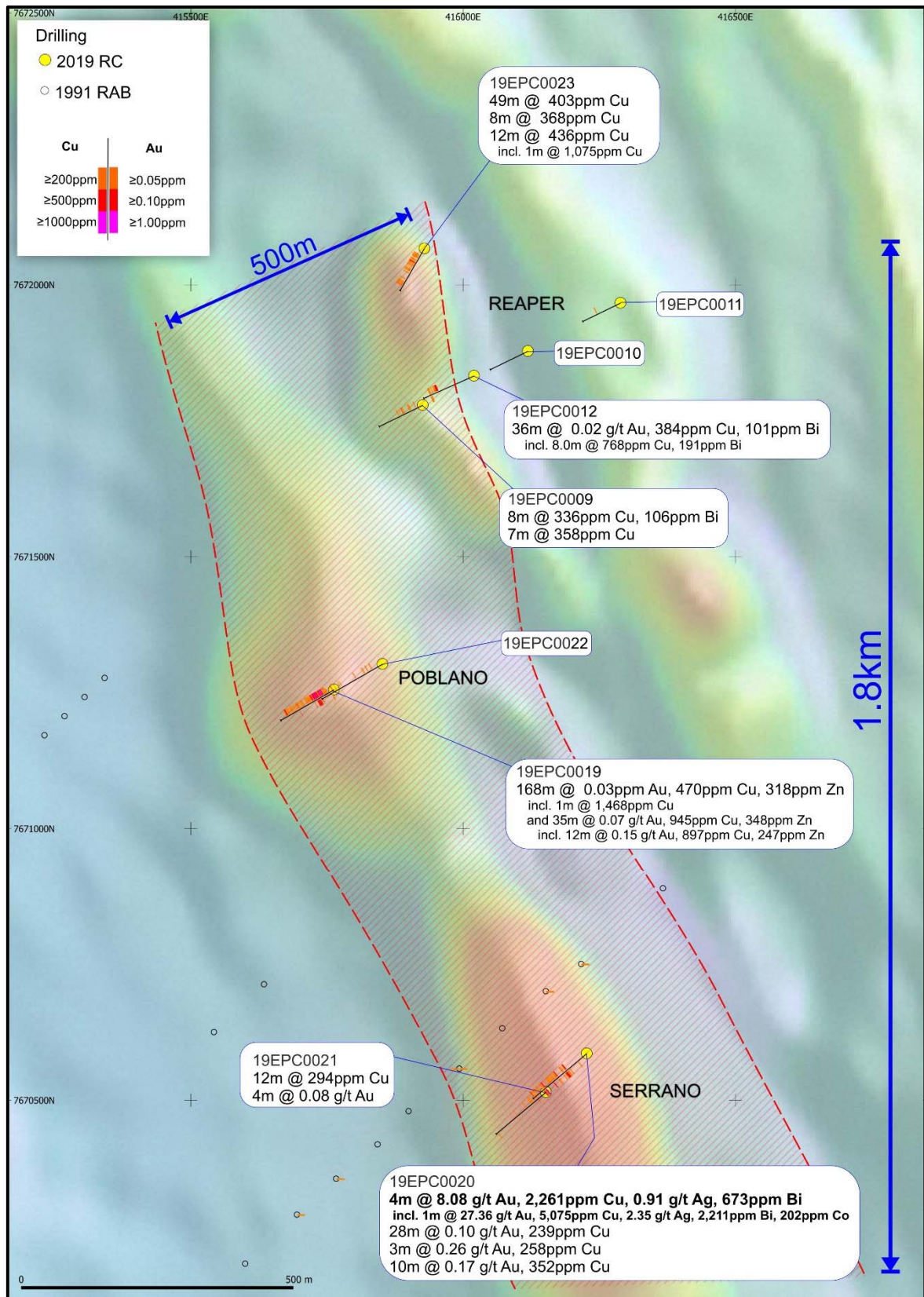
**For further information, please visit [www.antipaminerals.com.au](http://www.antipaminerals.com.au) or contact:**

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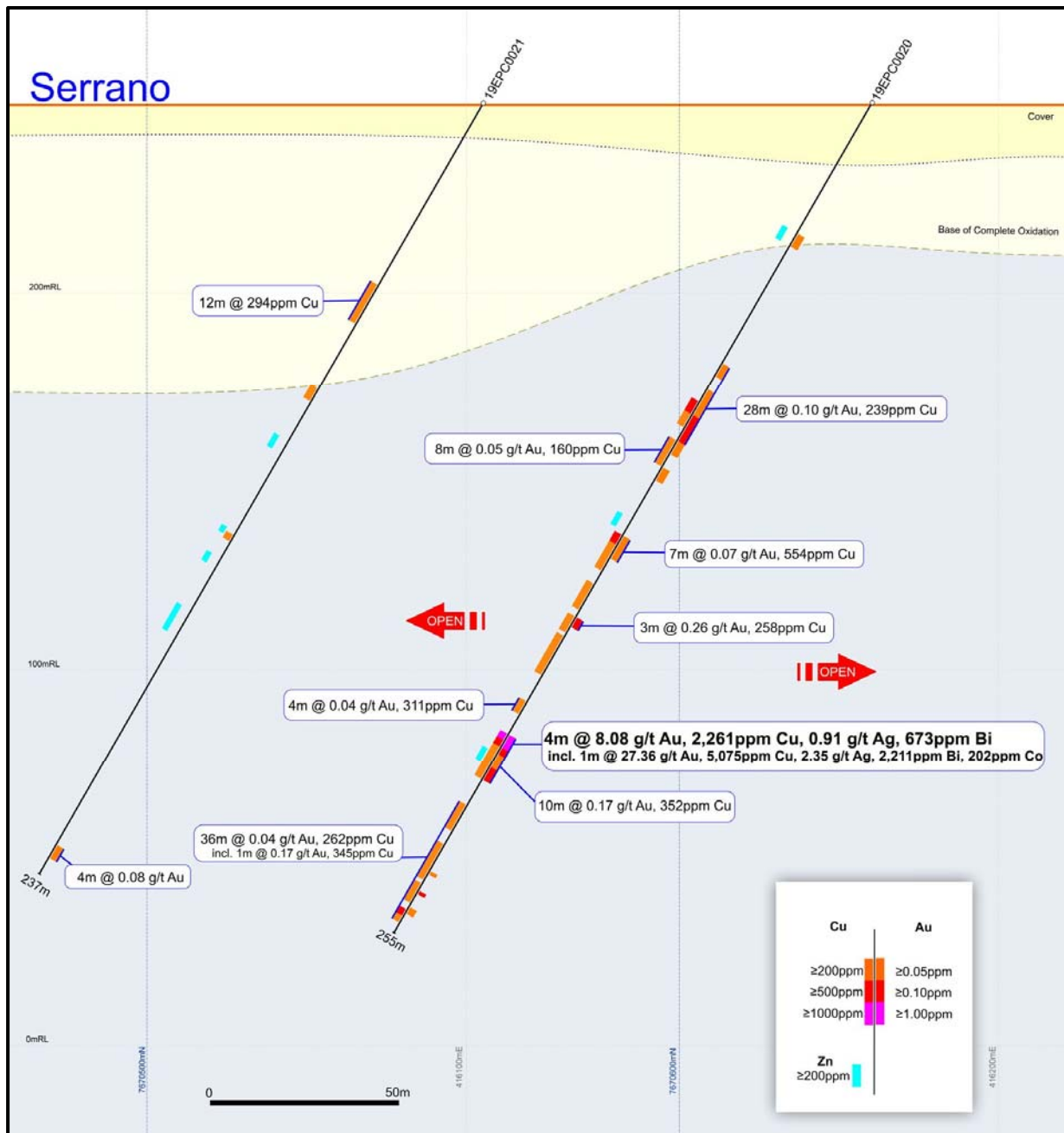
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**Figure 2: Plan view showing Serrano - Poblano (magnetic targets) and Reaper (AEM target AEM32) 2019 RC drill holes and distribution of copper-gold-zinc mineralisation and grades, and the new El Paso Corridor mineralised trend which is 500m wide by 1.8km long and, based on limited very broad spaced drill testing, remains open in all directions, with the major “controlling” northwest striking structure extending for 60km across Antipa tenure (refer to Figure 8). NB: Over Airborne magnetic image (100m flight-line spacing at an altitude of 30m; pseudo-colour TMI-RTP First Vertical Derivative NE Sun illumination) and Regional GDA94 / MGA Zone 51 co-ordinates, 500m grid.**



**Figure 3: Serrano magnetic target cross-section showing 2019 RC drill holes and distribution of copper-gold-zinc mineralisation and grades. NB: Regional GDA94 / MGA Zone 51 co-ordinates, 100m grid, looking toward 320°.**

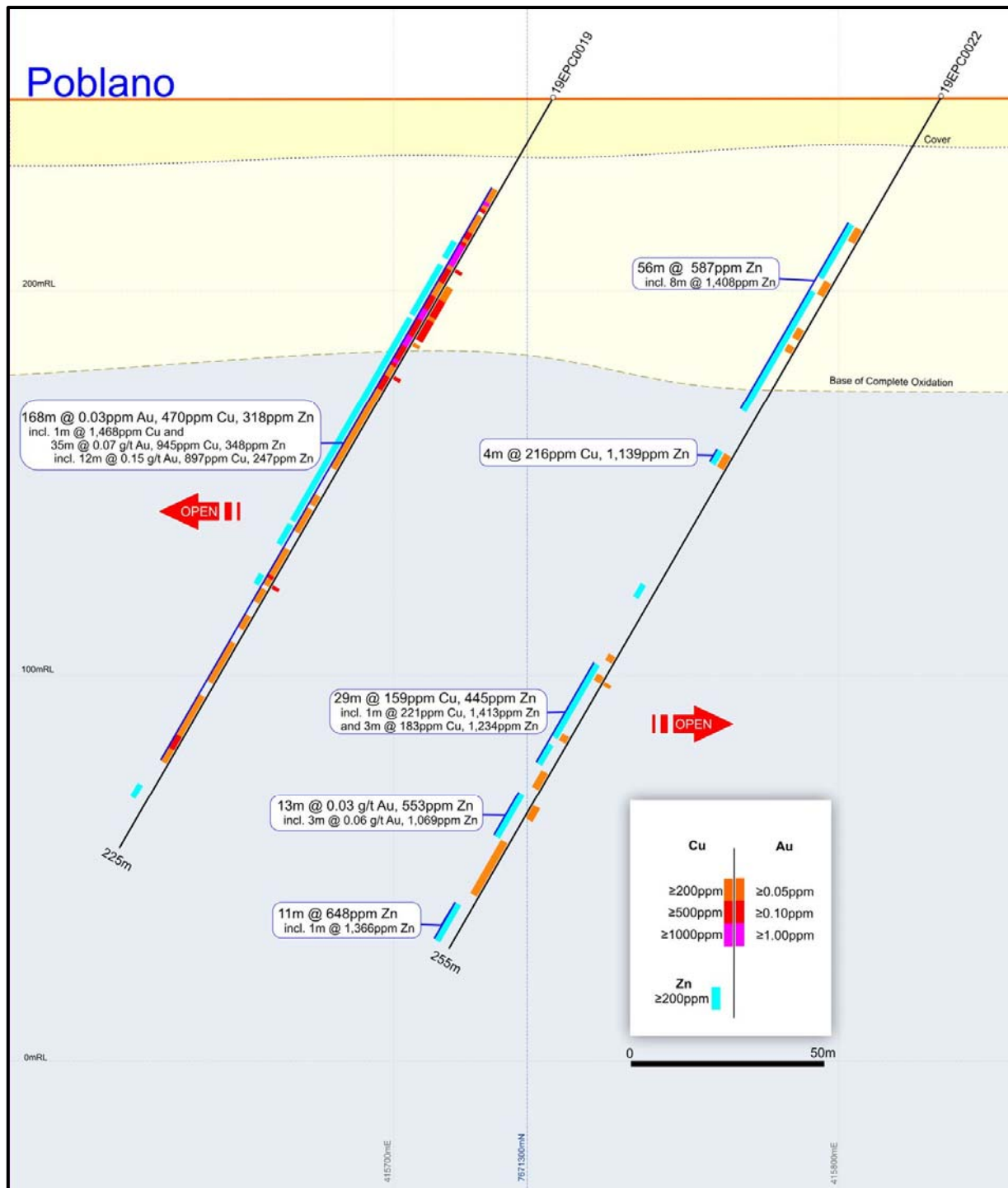


Figure 4: Poblano magnetic target cross-section showing 2019 RC drill holes and distribution of copper-gold-zinc mineralisation and grades. NB: Regional GDA94 / MGA Zone 51 co-ordinates, 100m grid, looking toward 330°.

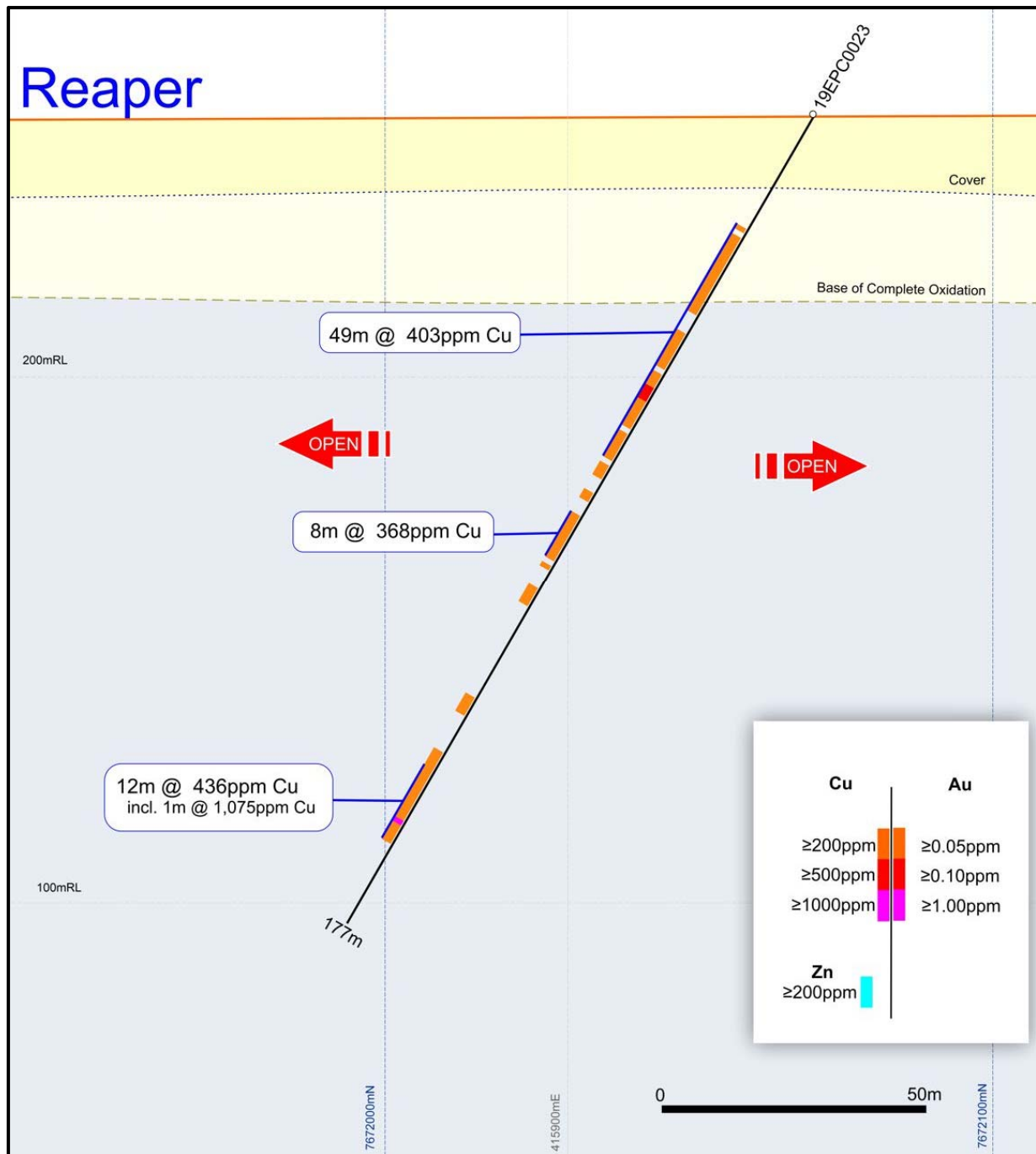


Figure 5: Reaper AEM Target (AEM32) northern cross-section showing 2019 RC drill holes and distribution of copper-gold-zinc mineralisation and grades. NB: Regional GDA94 / MGA Zone 51 co-ordinates, 100m grid, looking toward 300°.



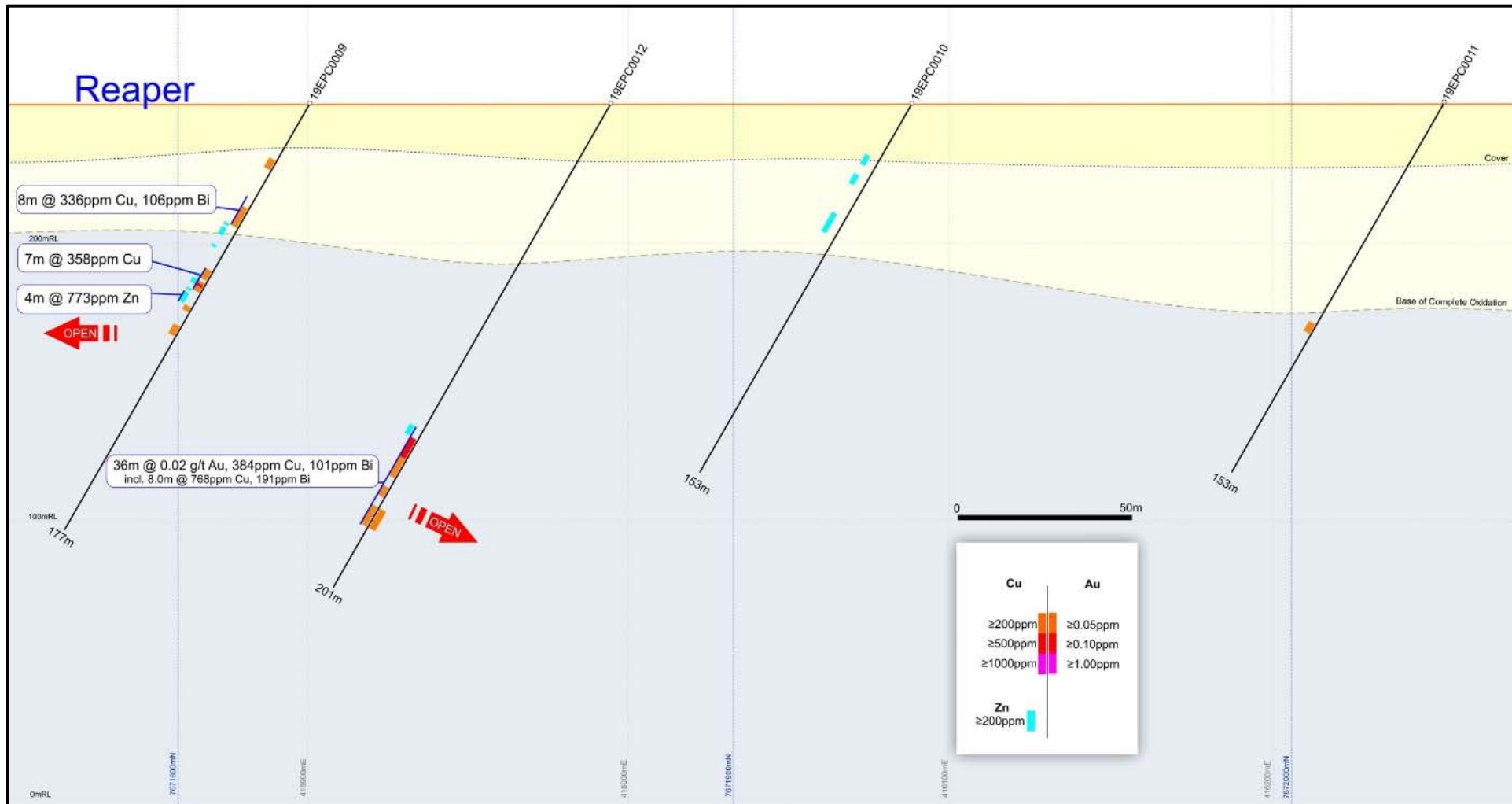


Figure 6: Reaper AEM Target (AEM32) southern cross-section showing 2019 RC drill holes and distribution of copper-gold-zinc mineralisation and grades. NB: Regional GDA94 / MGA Zone 51 co-ordinates, 100m grid, looking toward 335°.

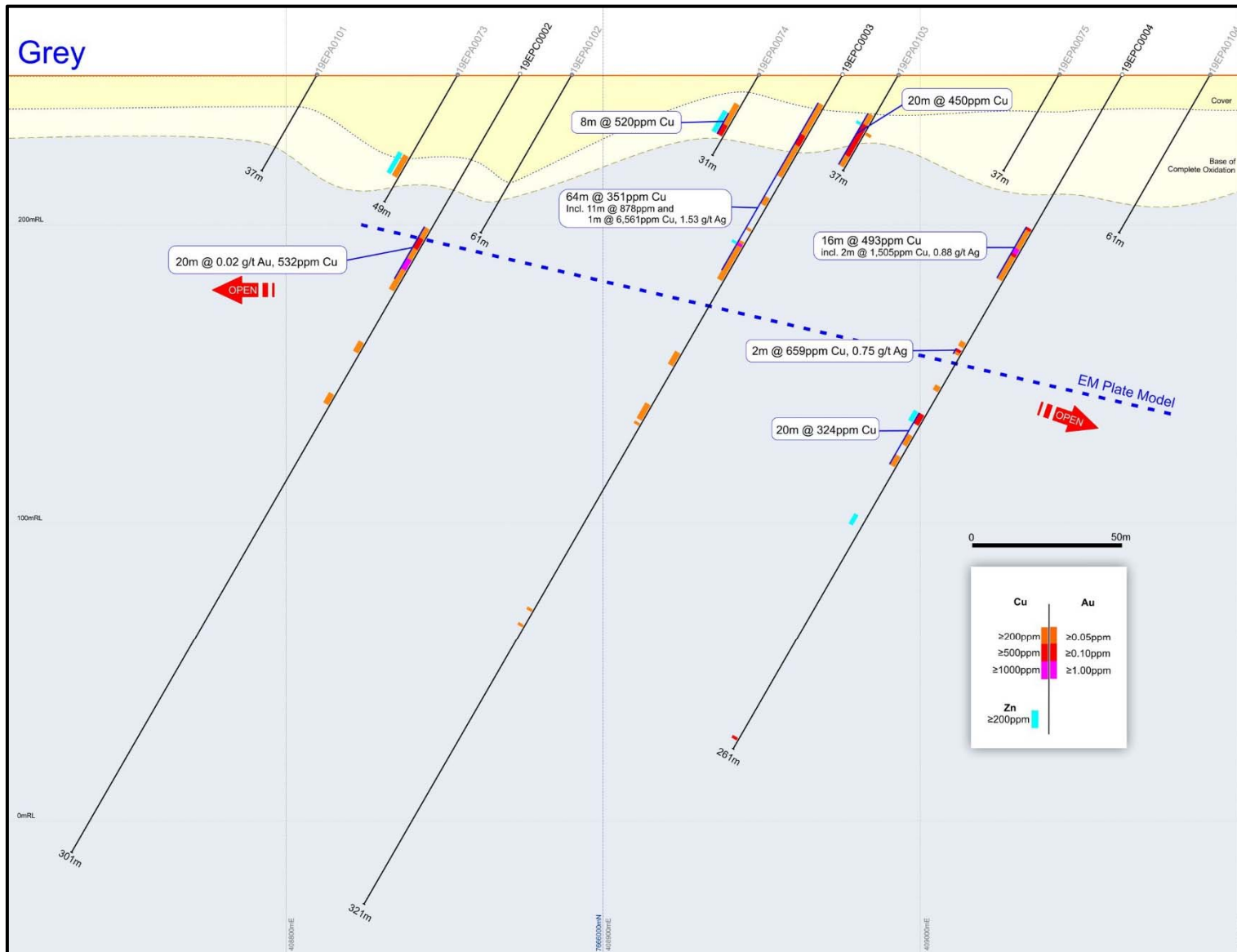


Figure 7: Grey AEM Target (AEM28) cross-section showing 2019 air core and RC drill holes and distribution of copper-gold-zinc mineralisation and grades and location of AEM conductivity EM Plate Model. NB: Regional GDA94 / MGA Zone 51 co-ordinates, 100m grid, looking toward 340°.



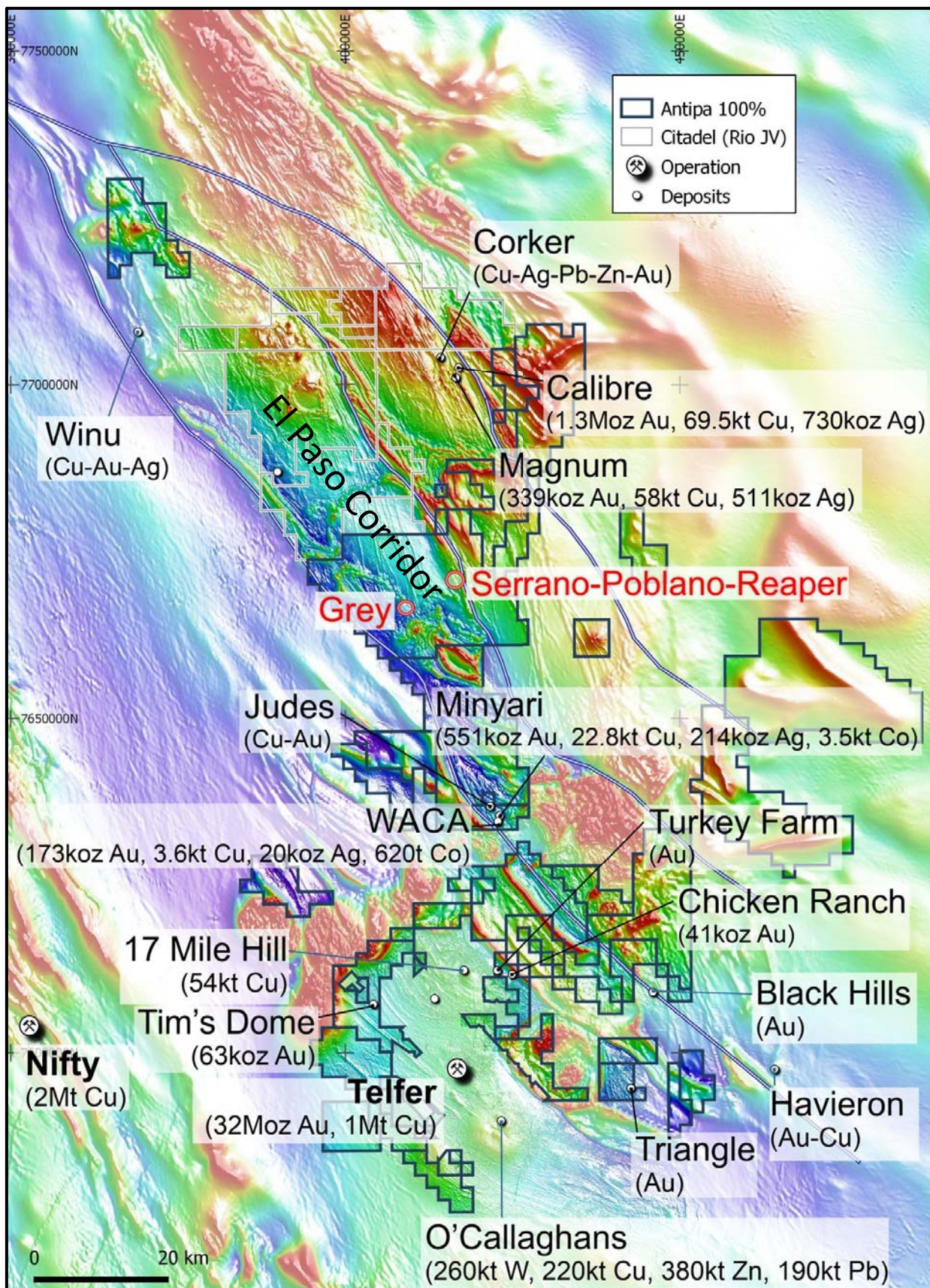
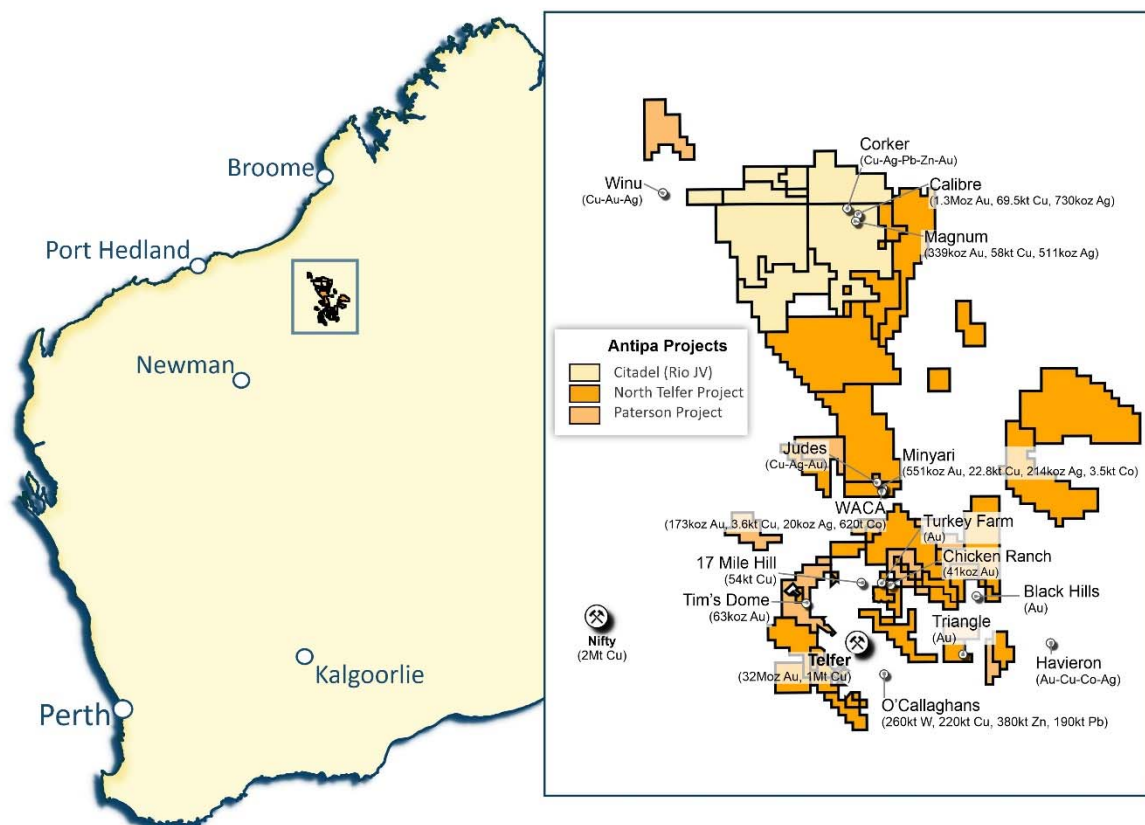


Figure 8: Plan view showing Antipa's Paterson Province projects, deposit and prospect locations including Newcrest Mining Ltd's Telfer Mine and O'Callaghans deposit, Greatland Gold plc's Havieron deposit and Rio Tinto's Winu deposit, the El Paso Corridor and new Serrano-Poblano-Reaper mineralised trend along a major structure (i.e. fault / shear zone / possible hydrothermal fluid "conduit"). NB: Over Airborne magnetic image (100m flight-line spacing at an altitude of 30m; pseudo-colour First Vertical Derivative) and Regional GDA94 / MGA Zone 51 co-ordinates, 50km grid.



**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 mine, Rio Tinto's recent Winu 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 5,000km<sup>2</sup>, including the 1,330km<sup>2</sup> Citadel Project that is subject to a Farm-in and Joint Venture Agreement with Rio Tinto. Under the terms of the Farm-in and Joint Venture Agreement, Rio Tinto can fund up to \$60 million of exploration expenditure to earn up to a 75% interest in Antipa's Citadel Project. Unlike certain parts of the Paterson where cover can extend to kilometres, making for difficult exploration, the Company's tenements feature relatively shallow cover: approximately 80% are under less than 80 metres. 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 spread across two deposits, Calibre and Magnum. The Company has also established a Mineral Resource on its 100%-owned tenements, known as the North Telfer and Paterson Projects, with the Minyari, WACA, Tim's Dome and Chicken Ranch deposits containing 827,000 ounces of gold and 26,000 tonnes of copper. Extensive drilling is planned for 2019 across Antipa's Paterson tenements as the company pursues a dual strategy of targeting tier-one greenfields discoveries and growing its existing resources through brownfields exploration.

**References to Rio Tinto:** All references to "Rio Tinto" or "Rio" in this document are a reference to Rio Tinto Exploration Pty Limited, a wholly owned subsidiary of Rio Tinto Limited.



**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.

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 "*Antipa Provides Update on 2019 Exploration Programme*" created on 18 June 2019;
- Report entitled "*Antipa provides Further Update on 2019 Exploration Programme*" created on 16 July 2019; and
- Report entitled "*Exploration Update - 100% Owned Paterson Province Tenure*" created on 22 August 2019.

All of which are available to view on [www.antipaminerals.com.au](http://www.antipaminerals.com.au) and [www.asx.com.au](http://www.asx.com.au).

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.

**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 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, 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, the Calibre deposit Mineral Resource information is extracted from the report entitled "*Calibre Deposit Mineral Resource Update*" created on 17 November 2017 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, all of which are available to view on [www.antipaminerals.com.au](http://www.antipaminerals.com.au) and [www.asx.com.au](http://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. 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 16 November 2017 which is available to view on [www.antipaminerals.com.au](http://www.antipaminerals.com.au) and [www.asx.com.au](http://www.asx.com.au).

**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 [www.antipaminerals.com.au](http://www.antipaminerals.com.au) and [www.asx.com.au](http://www.asx.com.au).

**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.

**Table 1a: 2019 AEM and Magnetic Target Drill Hole Drill Intersections (post previous ASX release):  
Copper-Gold-Zinc-Silver-Bismuth**  
(i.e.  $\geq 1.0\text{m}$  with  $\text{Cu} \geq 300\text{ ppm}$  and/or  $\text{Au} \geq 0.05\text{ ppm}$  and/or  $\text{Zn} \geq 500\text{ ppm}$  and/or  $\text{Ag} \geq 0.50\text{ ppm}$  and/or  $\text{Bi} \geq 10\text{ ppm}$ )

Hole ID	Target	From (m)	To (m)	Interval (m)	Copper (ppm)	Gold (ppm)	Zinc (ppm)	Silver (ppm)	Bismuth (ppm)
19EPC0002	AEM28	60	80	20	532	0.01	52	0.26	1
19EPC0003	AEM28	12	76	64	351	0.00	80	0.13	1
<b>19EPC0003</b>	<b>including</b>	<b>65</b>	<b>76</b>	<b>11</b>	<b>878</b>	<b>0.01</b>	<b>91</b>	<b>0.37</b>	<b>1</b>
	<b>also incl.</b>	<b>66</b>	<b>67</b>	<b>1</b>	<b>6,561</b>	<b>0.02</b>	<b>372</b>	<b>1.53</b>	<b>3</b>
19EPC0004	AEM28	60	76	16	493	0.00	46	0.27	1
	including	68	70	2	1,505	0.01	54	0.88	4
19EPC0004	AEM28	107	109	2	659	0.00	122	0.75	1
19EPC0004	AEM28	132	152	20	324	0.00	127	0.38	1
19EPC0009	AEM32	44	52	8	336	0.00	125	0.07	106
19EPC0009	AEM32	72	79	7	358	0.00	270	0.19	43
19EPC0009	AEM32	81	85	4	111	0.00	773	0.15	1
19EPC0012	AEM32	140	176	36	384	0.02	56	0.19	101
	including	140	148	8	768	0.00	62	0.32	191
<b>19EPC0019</b>	<b>Poblano</b>	<b>32</b>	<b>200</b>	<b>168</b>	<b>470</b>	<b>0.03</b>	<b>318</b>	<b>0.16</b>	<b>7</b>
	including	32	33	1	1,468	0.00	134	0.28	22
	<b>including</b>	<b>45</b>	<b>80</b>	<b>35</b>	<b>945</b>	<b>0.07</b>	<b>348</b>	<b>0.21</b>	<b>13</b>
	<b>also incl.</b>	<b>60</b>	<b>72</b>	<b>12</b>	<b>897</b>	<b>0.15</b>	<b>247</b>	<b>0.24</b>	<b>21</b>
<b>19EPC0020</b>	<b>Serrano</b>	<b>80</b>	<b>108</b>	<b>28</b>	<b>239</b>	<b>0.10</b>	<b>82</b>	<b>0.08</b>	<b>23</b>
19EPC0020	Serrano	108	116	8	160	0.05	60	0.06	13
19EPC0020	Serrano	133	140	7	554	0.07	35	0.15	9
<b>19EPC0020</b>	<b>Serrano</b>	<b>158</b>	<b>161</b>	<b>3</b>	<b>258</b>	<b>0.26</b>	<b>29</b>	<b>0.09</b>	<b>57</b>
19EPC0020	Serrano	184	188	4	311	0.04	60	0.13	11
<b>19EPC0020</b>	<b>Serrano</b>	<b>194</b>	<b>198</b>	<b>4</b>	<b>2,261</b>	<b>8.08</b>	<b>46</b>	<b>0.91</b>	<b>673</b>
	including	195	196	1	5,075	27.36	33	2.35	2,211
<b>19EPC0020</b>	<b>Serrano</b>	<b>198</b>	<b>208</b>	<b>10</b>	<b>352</b>	<b>0.17</b>	<b>120</b>	<b>0.12</b>	<b>17</b>
19EPC0020	Serrano	216	252	36	262	0.04	45	0.08	5
	<b>including</b>	<b>242</b>	<b>243</b>	<b>1</b>	<b>345</b>	<b>0.17</b>	<b>34</b>	<b>0.13</b>	<b>16</b>
19EPC0021	Serrano	56	68	12	294	0.00	54	0.05	1
19EPC0021	Serrano	228	232	4	150	0.08	55	0.05	7
19EPC0022	Poblano	40	96	56	154	0.01	587	0.09	6
	including	73	81	8	168	0.01	1,408	0.09	1
19EPC0022	Poblano	108	112	4	216	0.01	1,139	0.24	38
19EPC0022	Poblano	172	201	29	159	0.01	445	0.14	2
	including	192	193	1	221	0.01	1,413	0.24	2
	including	198	201	3	183	0.01	1,234	0.29	2
19EPC0022	Poblano	211	224	13	169	0.03	553	0.13	4
	including	211	214	3	135	0.06	1,069	0.22	8
19EPC0022	Poblano	244	255	11	116	0.01	648	0.14	2
	including	247	248	1	169	0.00	1,366	0.17	1
19EPC0023	AEM32	27	76	49	403	0.00	101	0.13	5
19EPC0023	AEM32	88	96	8	368	0.00	71	0.16	1
19EPC0023	AEM32	148	160	12	436	0.00	101	0.29	4
	including	155	156	1	1,075	0.00	123	0.78	5
19PNC0008	AEM41	208	214	6	424	0.00	72	0.00	1

**Notes (Table 1a above):** Table 1a intersections are composite assay intervals reported using the following criteria:

Intersection Interval = Nominal cut-off grade scenarios:

- $\geq 300\text{ppm}$  copper which also satisfy a minimum down-hole interval of  $1.0\text{m}$ ; and/or
- $\geq 0.05\text{ppm}$  gold which also satisfy a minimum down-hole interval of  $1.0\text{m}$ ; and/or
- $\geq 500\text{ppm}$  zinc which also satisfy a minimum down-hole interval of  $1.0\text{m}$ ; and/or
- $\geq 0.5\text{ppm g/t}$  silver which also satisfy a minimum down-hole interval of  $1.0\text{m}$ ; and/or
- $\geq 20\text{ppm}$  bismuth which also satisfy a minimum down-hole interval of  $1.0\text{m}$ .
- No top-cutting has been applied to assay results for copper, gold, zinc, silver or bismuth.
- Intersections are down hole lengths, true widths not known with certainty.

**Table 1b: 2019 AEM and Magnetic Target Drill Hole Key Assay Results (post previous ASX release):****Copper-Gold-Zinc-Silver-Bismuth**(i.e.  $\geq 1.0\text{m}$  with  $\text{Cu} \geq 200 \text{ ppm}$  and/or  $\text{Au} \geq 0.05 \text{ ppm}$  and/or  $\text{Zn} \geq 200 \text{ ppm}$  and/or  $\text{Ag} \geq 0.50 \text{ ppm}$  and/or  $\text{Bi} \geq 10 \text{ ppm}$ )

Hole ID	Target	From (m)	To (m)	Interval (m)	Copper (ppm)	Gold (ppm)	Zinc (ppm)	Silver (ppm)	Bismuth (ppm)
19EPC0002	AEM28	60	64	4	273	0.01	51	0.14	0
19EPC0002	AEM28	64	68	4	520	0.00	48	0.26	1
19EPC0002	AEM28	68	72	4	421	0.01	51	0.25	2
19EPC0002	AEM28	72	76	4	1,064	0.01	64	0.48	1
19EPC0002	AEM28	76	80	4	385	0.00	48	0.19	0
19EPC0002	AEM28	80	84	4	240	0.00	44	0.10	0
19EPC0002	AEM28	104	108	4	235	0.00	46	0.12	0
19EPC0002	AEM28	124	128	4	231	0.01	56	0.11	1
19EPC0002	AEM28	234	235	1	191	0.00	68	0.81	7
19EPC0003	AEM28	12	16	4	251	0.00	93	0.11	1
19EPC0003	AEM28	16	20	4	357	0.00	89	0.07	1
19EPC0003	AEM28	20	24	4	329	0.00	73	0.18	1
19EPC0003	AEM28	24	28	4	500	0.01	193	0.16	0
19EPC0003	AEM28	28	32	4	206	0.01	97	0.08	0
19EPC0003	AEM28	32	36	4	218	0.00	43	0.05	0
19EPC0003	AEM28	36	40	4	221	0.00	41	0.04	0
19EPC0003	AEM28	48	49	1	484	0.01	43	0.09	1
19EPC0003	AEM28	49	50	1	296	0.00	38	0.07	0
19EPC0003	AEM28	50	51	1	233	0.00	44	0.04	0
19EPC0003	AEM28	60	61	1	281	0.00	80	0.08	1
19EPC0003	AEM28	65	66	1	216	0.00	128	0.86	2
19EPC0003	AEM28	66	67	1	6,561	0.02	372	1.53	3
19EPC0003	AEM28	67	68	1	369	0.01	69	0.36	1
19EPC0003	AEM28	68	69	1	285	0.00	59	0.17	0
19EPC0003	AEM28	69	70	1	221	0.00	55	0.12	0
19EPC0003	AEM28	70	71	1	313	0.00	51	0.17	0
19EPC0003	AEM28	71	72	1	343	0.00	53	0.21	0
19EPC0003	AEM28	72	73	1	237	0.00	47	0.13	0
19EPC0003	AEM28	73	74	1	365	0.01	59	0.22	0
19EPC0003	AEM28	74	75	1	332	0.01	51	0.11	0
19EPC0003	AEM28	75	76	1	421	0.01	57	0.19	0
19EPC0003	AEM28	76	80	4	272	0.01	40	0.13	0
19EPC0003	AEM28	108	112	4	224	0.00	40	0.33	0
19EPC0003	AEM28	112	113	1	413	0.01	68	0.46	1
19EPC0003	AEM28	128	132	4	204	0.01	44	0.08	0
19EPC0003	AEM28	132	133	1	250	0.00	56	0.04	0
19EPC0003	AEM28	133	134	1	214	0.01	49	0.05	0
19EPC0003	AEM28	135	136	1	224	0.00	58	0.05	0
19EPC0003	AEM28	207	208	1	393	0.01	76	0.25	3
19EPC0003	AEM28	213	214	1	229	0.00	47	0.18	1
19EPC0004	AEM28	60	61	1	548	0.01	66	0.26	0
19EPC0004	AEM28	61	62	1	240	0.00	42	0.09	0
19EPC0004	AEM28	62	63	1	210	0.00	47	0.09	0
19EPC0004	AEM28	63	64	1	236	0.00	43	0.14	0
19EPC0004	AEM28	64	68	4	363	0.01	50	0.18	0
19EPC0004	AEM28	68	69	1	1,075	0.01	56	0.65	6
19EPC0004	AEM28	69	70	1	1,935	0.02	51	1.10	2
19EPC0004	AEM28	70	71	1	501	0.00	42	0.31	1
19EPC0004	AEM28	71	72	1	330	0.00	46	0.24	0
19EPC0004	AEM28	72	76	4	339	0.00	35	0.18	0
19EPC0004	AEM28	76	80	4	238	0.00	34	0.13	0
19EPC0004	AEM28	104	105	1	246	0.00	57	0.12	0
19EPC0004	AEM28	105	106	1	240	0.00	60	0.18	1
19EPC0004	AEM28	107	108	1	859	0.00	116	1.02	1
19EPC0004	AEM28	108	109	1	459	0.00	127	0.47	1
19EPC0004	AEM28	121	122	1	418	0.00	90	0.68	1
19EPC0004	AEM28	122	123	1	206	0.00	54	0.27	0
19EPC0004	AEM28	132	136	4	620	0.00	202	0.59	1
19EPC0004	AEM28	140	144	4	386	0.01	103	0.42	1
19EPC0004	AEM28	148	152	4	271	0.00	31	0.25	0
19EPC0004	AEM28	172	176	4	107	0.00	478	0.67	1
19EPC0004	AEM28	257	258	1	558	0.00	89	0.61	1
19EPC0009	AEM32	24	28	4	306	0.00	110	0.06	4
19EPC0009	AEM32	44	45	1	347	0.00	162	0.07	1
19EPC0009	AEM32	45	46	1	300	0.00	88	0.06	7
19EPC0009	AEM32	45	47	2	290	0.00	74	0.08	5

Hole ID	Target	From (m)	To (m)	Interval (m)	Copper (ppm)	Gold (ppm)	Zinc (ppm)	Silver (ppm)	Bismuth (ppm)
19EPC0009	AEM32	47	48	1	288	0.00	122	0.05	3
19EPC0009	AEM32	48	49	1	292	0.00	130	0.02	15
19EPC0009	AEM32	49	50	1	283	0.00	101	0.03	43
19EPC0009	AEM32	50	51	1	287	0.01	77	0.09	757
19EPC0009	AEM32	51	52	1	316	0.00	171	0.06	10
19EPC0009	AEM32	52	53	1	89	0.00	216	0.02	3
19EPC0009	AEM32	54	55	1	95	0.00	286	0.04	1
19EPC0009	AEM32	55	56	1	163	0.00	320	0.04	1
19EPC0009	AEM32	56	57	1	177	0.00	201	0.04	91
19EPC0009	AEM32	61	62	1	51	0.00	322	0.02	5
19EPC0009	AEM32	70	71	1	264	0.00	60	0.09	3
19EPC0009	AEM32	71	72	1	223	0.00	77	0.09	2
19EPC0009	AEM32	72	73	1	350	0.00	134	0.15	2
19EPC0009	AEM32	73	74	1	309	0.00	397	0.17	15
19EPC0009	AEM32	75	76	1	480	0.00	682	0.25	5
19EPC0009	AEM32	76	77	1	662	0.00	335	0.28	5
19EPC0009	AEM32	77	78	1	333	0.01	119	0.32	266
19EPC0009	AEM32	78	79	1	291	0.00	53	0.10	6
19EPC0009	AEM32	79	80	1	157	0.00	238	0.09	2
19EPC0009	AEM32	81	82	1	66	0.00	974	0.14	1
19EPC0009	AEM32	82	83	1	98	0.00	296	0.07	1
19EPC0009	AEM32	83	84	1	148	0.00	1,501	0.29	1
19EPC0009	AEM32	84	85	1	132	0.00	322	0.09	2
19EPC0009	AEM32	85	86	1	205	0.00	164	0.12	2
19EPC0009	AEM32	86	87	1	214	0.00	79	0.13	2
19EPC0009	AEM32	93	97	4	209	0.00	44	0.07	1
19EPC0009	AEM32	148	152	4	74	0.00	17	0.05	16
19EPC0010	AEM32	24	28	4	134	0.00	240	0.04	1
19EPC0010	AEM32	32	36	4	58	0.00	280	0.00	0
19EPC0010	AEM32	48	52	4	33	0.01	225	0.05	1
19EPC0010	AEM32	52	56	4	31	0.01	245	0.05	0
19EPC0011	AEM32	92	96	4	264	0.00	76	0.03	3
19EPC0012	AEM32	136	140	4	187	0.00	271	0.17	2
19EPC0012	AEM32	140	141	1	792	0.01	81	0.44	597
19EPC0012	AEM32	141	142	1	737	0.00	75	0.26	3
19EPC0012	AEM32	142	143	1	671	0.01	25	0.31	270
19EPC0012	AEM32	143	144	1	842	0.01	41	0.42	638
19EPC0012	AEM32	144	145	1	792	0.00	73	0.33	9
19EPC0012	AEM32	145	146	1	783	0.00	73	0.28	6
19EPC0012	AEM32	146	147	1	623	0.00	41	0.22	3
19EPC0012	AEM32	147	148	1	900	0.00	90	0.32	3
19EPC0012	AEM32	148	152	4	327	0.00	73	0.15	1
19EPC0012	AEM32	152	156	4	290	0.00	59	0.13	1
19EPC0012	AEM32	160	164	4	229	0.00	47	0.13	0
19EPC0012	AEM32	168	172	4	351	0.06	54	0.22	262
19EPC0012	AEM32	172	176	4	363	0.07	58	0.22	264
19EPC0014	AEM33	132	136	4	36	0.00	367	0.09	1
19EPC0014	AEM33	256	260	4	39	0.00	383	0.09	1
19EPC0015	AEM33	112	116	4	51	0.00	231	0.12	1
19EPC0015	AEM33	136	140	4	45	0.00	324	0.09	1
19EPC0015	AEM33	156	160	4	38	0.00	236	0.08	1
19EPC0015	AEM33	160	164	4	49	0.00	334	0.09	1
19EPC0015	AEM33	176	180	4	48	0.00	209	0.11	1
19EPC0015	AEM33	180	184	4	39	0.00	303	0.11	1
19EPC0015	AEM33	188	189	1	29	0.00	278	0.07	1
19EPC0019	Poblano	28	32	4	253	0.00	65	0.72	3
19EPC0019	Poblano	32	33	1	1,468	0.00	134	0.28	22
19EPC0019	Poblano	33	34	1	398	0.00	65	0.26	6
19EPC0019	Poblano	34	35	1	675	0.00	86	0.09	5
19EPC0019	Poblano	35	36	1	146	0.00	14	0.56	2
19EPC0019	Poblano	36	40	4	377	0.00	17	0.29	2
19EPC0019	Poblano	40	41	1	486	0.00	25	0.41	4
19EPC0019	Poblano	41	42	1	716	0.00	30	0.27	6
19EPC0019	Poblano	42	43	1	747	0.01	53	0.10	11
19EPC0019	Poblano	43	44	1	255	0.01	27	0.09	6
19EPC0019	Poblano	44	45	1	542	0.00	87	0.11	5
19EPC0019	Poblano	45	46	1	1,032	0.00	310	0.04	3
19EPC0019	Poblano	46	47	1	1,110	0.00	343	0.02	2
19EPC0019	Poblano	47	48	1	1,202	0.00	294	0.23	2
19EPC0019	Poblano	48	49	1	1,945	0.00	351	0.07	4
19EPC0019	Poblano	49	50	1	2,407	0.00	345	0.02	2



Hole ID	Target	From (m)	To (m)	Interval (m)	Copper (ppm)	Gold (ppm)	Zinc (ppm)	Silver (ppm)	Bismuth (ppm)
19EPC0019	Poblano	50	51	1	1,419	0.00	193	0.01	2
19EPC0019	Poblano	51	52	1	475	0.11	104	0.06	8
19EPC0019	Poblano	52	56	4	650	0.03	350	0.06	5
19EPC0019	Poblano	56	60	4	429	0.06	224	0.15	31
19EPC0019	Poblano	60	64	4	621	0.20	288	0.21	31
19EPC0019	Poblano	64	65	1	1,548	0.17	259	0.13	12
19EPC0019	Poblano	65	66	1	1,477	0.07	201	0.12	6
19EPC0019	Poblano	66	67	1	1,426	0.20	248	0.17	14
19EPC0019	Poblano	67	68	1	1,000	0.13	165	0.19	49
19EPC0019	Poblano	68	72	4	706	0.11	236	0.36	11
19EPC0019	Poblano	72	73	1	1,311	0.03	476	0.30	11
19EPC0019	Poblano	73	74	1	1,396	0.07	627	0.62	7
19EPC0019	Poblano	74	75	1	1,189	0.02	525	0.53	4
19EPC0019	Poblano	75	76	1	766	0.01	319	0.27	2
19EPC0019	Poblano	76	77	1	875	0.03	545	0.30	3
19EPC0019	Poblano	77	78	1	720	0.02	321	0.22	4
19EPC0019	Poblano	78	79	1	978	0.01	647	0.27	4
19EPC0019	Poblano	79	80	1	1,185	0.03	948	0.28	6
19EPC0019	Poblano	80	81	1	786	0.02	574	0.28	3
19EPC0019	Poblano	81	82	1	412	0.02	1,008	0.33	1
19EPC0019	Poblano	82	83	1	364	0.01	462	0.11	1
19EPC0019	Poblano	83	84	1	434	0.10	290	0.09	12
19EPC0019	Poblano	84	88	4	520	0.05	341	0.11	8
19EPC0019	Poblano	88	92	4	420	0.01	636	0.12	4
19EPC0019	Poblano	92	96	4	427	0.01	667	0.09	12
19EPC0019	Poblano	96	100	4	312	0.01	461	0.07	2
19EPC0019	Poblano	100	104	4	215	0.01	531	0.11	2
19EPC0019	Poblano	104	108	4	212	0.00	424	0.09	1
19EPC0019	Poblano	108	112	4	284	0.01	749	0.41	3
19EPC0019	Poblano	112	116	4	137	0.01	492	0.18	4
19EPC0019	Poblano	116	120	4	191	0.00	426	0.18	2
19EPC0019	Poblano	120	121	1	372	0.01	1,994	0.65	2
19EPC0019	Poblano	121	122	1	367	0.01	4,192	0.68	2
19EPC0019	Poblano	122	123	1	280	0.00	2,373	0.66	2
19EPC0019	Poblano	123	124	1	196	0.01	1,148	0.53	2
19EPC0019	Poblano	124	128	4	205	0.01	300	0.19	2
19EPC0019	Poblano	128	129	1	413	0.02	289	0.33	11
19EPC0019	Poblano	129	130	1	432	0.00	88	0.36	2
19EPC0019	Poblano	130	131	1	251	0.00	1,150	0.27	1
19EPC0019	Poblano	131	132	1	116	0.00	3,109	0.25	1
19EPC0019	Poblano	132	136	4	167	0.00	245	0.08	1
19EPC0019	Poblano	136	140	4	273	0.01	71	0.08	1
19EPC0019	Poblano	140	144	4	446	0.01	60	0.16	3
19EPC0019	Poblano	144	145	1	574	0.01	89	0.21	2
19EPC0019	Poblano	145	146	1	465	0.03	314	0.23	14
19EPC0019	Poblano	146	147	1	261	0.27	240	0.52	207
19EPC0019	Poblano	147	148	1	124	0.01	261	0.14	2
19EPC0019	Poblano	148	152	4	241	0.01	90	0.07	3
19EPC0019	Poblano	156	160	4	357	0.02	28	0.08	4
19EPC0019	Poblano	164	168	4	423	0.01	26	0.09	3
19EPC0019	Poblano	168	172	4	440	0.01	31	0.09	4
19EPC0019	Poblano	172	176	4	296	0.01	21	0.07	2
19EPC0019	Poblano	180	184	4	270	0.01	39	0.07	3
19EPC0019	Poblano	184	188	4	461	0.03	37	0.11	8
19EPC0019	Poblano	188	192	4	473	0.02	39	0.11	5
19EPC0019	Poblano	192	196	4	570	0.02	51	0.12	6
19EPC0019	Poblano	196	200	4	411	0.02	40	0.08	5
19EPC0019	Poblano	208	212	4	102	0.01	254	0.09	2
19EPC0020	Serrano	40	44	4	4	0.06	221	0.06	12
19EPC0020	Serrano	60	64	4	56	0.04	15	0.02	15
19EPC0020	Serrano	80	84	4	182	0.06	120	0.06	18
19EPC0020	Serrano	88	92	4	19	0.06	89	0.01	8
19EPC0020	Serrano	92	96	4	542	0.07	83	0.16	53
19EPC0020	Serrano	96	100	4	423	0.19	68	0.15	35
19EPC0020	Serrano	100	104	4	188	0.19	66	0.07	18
19EPC0020	Serrano	104	108	4	288	0.07	64	0.09	22
19EPC0020	Serrano	108	112	4	224	0.05	56	0.07	20
19EPC0020	Serrano	112	116	4	97	0.06	64	0.04	6
19EPC0020	Serrano	128	132	4	174	0.03	216	0.23	3
19EPC0020	Serrano	133	134	1	688	0.07	46	0.18	10
19EPC0020	Serrano	134	135	1	804	0.06	34	0.22	8

Hole ID	Target	From (m)	To (m)	Interval (m)	Copper (ppm)	Gold (ppm)	Zinc (ppm)	Silver (ppm)	Bismuth (ppm)
19EPC0020	Serrano	135	136	1	524	0.05	30	0.14	7
19EPC0020	Serrano	136	140	4	465	0.08	34	0.13	9
19EPC0020	Serrano	140	144	4	218	0.02	44	0.06	3
19EPC0020	Serrano	148	152	4	219	0.03	45	0.07	4
19EPC0020	Serrano	152	156	4	219	0.02	27	0.08	4
19EPC0020	Serrano	158	159	1	261	0.32	37	0.09	50
19EPC0020	Serrano	159	160	1	201	0.15	35	0.07	20
19EPC0020	Serrano	160	161	1	313	0.30	16	0.11	100
19EPC0020	Serrano	161	162	1	244	0.04	20	0.07	10
19EPC0020	Serrano	162	163	1	308	0.01	18	0.08	5
19EPC0020	Serrano	164	168	4	240	0.04	188	0.08	4
19EPC0020	Serrano	168	172	4	220	0.02	37	0.06	2
19EPC0020	Serrano	172	176	4	222	0.02	36	0.06	3
19EPC0020	Serrano	184	188	4	311	0.04	60	0.13	11
19EPC0020	Serrano	194	195	1	2,740	2.35	89	0.86	247
19EPC0020	Serrano	195	196	1	5,075	27.36	33	2.35	2,211
19EPC0020	Serrano	196	197	1	549	1.03	31	0.19	93
19EPC0020	Serrano	197	198	1	678	1.59	31	0.25	141
19EPC0020	Serrano	198	199	1	407	0.43	35	0.14	40
19EPC0020	Serrano	199	200	1	318	0.11	41	0.09	12
19EPC0020	Serrano	200	204	4	256	0.07	243	0.10	8
19EPC0020	Serrano	204	208	4	444	0.21	39	0.13	21
19EPC0020	Serrano	216	220	4	372	0.04	74	0.10	10
19EPC0020	Serrano	220	224	4	202	0.02	48	0.06	3
19EPC0020	Serrano	228	232	4	210	0.02	52	0.07	3
19EPC0020	Serrano	232	236	4	201	0.02	32	0.05	4
19EPC0020	Serrano	236	237	1	241	0.07	35	0.06	13
19EPC0020	Serrano	237	238	1	289	0.03	32	0.07	3
19EPC0020	Serrano	238	239	1	223	0.05	43	0.09	3
19EPC0020	Serrano	240	241	1	232	0.03	42	0.06	4
19EPC0020	Serrano	241	242	1	333	0.05	34	0.09	6
19EPC0020	Serrano	242	243	1	345	0.17	34	0.13	16
19EPC0020	Serrano	243	244	1	440	0.03	39	0.13	4
19EPC0020	Serrano	244	245	1	337	0.02	36	0.09	2
19EPC0020	Serrano	245	246	1	238	0.01	32	0.08	2
19EPC0020	Serrano	247	248	1	161	0.06	35	0.05	7
19EPC0020	Serrano	248	249	1	771	0.08	27	0.19	11
19EPC0020	Serrano	249	250	1	500	0.04	21	0.12	6
19EPC0020	Serrano	250	251	1	202	0.03	37	0.07	3
19EPC0020	Serrano	251	252	1	363	0.03	30	0.10	8
19EPC0021	Serrano	56	60	4	297	0.01	50	0.03	2
19EPC0021	Serrano	60	64	4	257	0.00	62	0.06	1
19EPC0021	Serrano	64	68	4	329	0.00	51	0.05	2
19EPC0021	Serrano	88	92	4	202	0.00	127	0.00	0
19EPC0021	Serrano	104	108	4	71	0.00	228	0.14	1
19EPC0021	Serrano	132	133	1	28	0.00	236	0.02	0
19EPC0021	Serrano	133	134	1	209	0.01	400	0.10	1
19EPC0021	Serrano	134	135	1	281	0.01	83	0.10	2
19EPC0021	Serrano	140	141	1	64	0.00	278	0.11	1
19EPC0021	Serrano	141	142	1	137	0.00	320	0.10	1
19EPC0021	Serrano	142	143	1	156	0.01	252	0.06	1
19EPC0021	Serrano	156	160	4	92	0.00	649	0.14	1
19EPC0021	Serrano	160	164	4	145	0.00	421	0.12	1
19EPC0021	Serrano	228	232	4	150	0.08	55	0.05	7
19EPC0022	Poblano	40	44	4	252	0.00	409	0.02	1
19EPC0022	Poblano	44	48	4	114	0.00	264	0.07	4
19EPC0022	Poblano	48	52	4	105	0.01	218	0.06	3
19EPC0022	Poblano	52	56	4	44	0.01	231	0.05	1
19EPC0022	Poblano	56	60	4	223	0.01	178	0.12	9
19EPC0022	Poblano	60	64	4	76	0.01	307	0.08	1
19EPC0022	Poblano	64	68	4	78	0.01	201	0.09	3
19EPC0022	Poblano	68	69	1	117	0.00	315	0.08	1
19EPC0022	Poblano	69	70	1	181	0.00	262	0.07	1
19EPC0022	Poblano	70	71	1	218	0.01	469	0.11	1
19EPC0022	Poblano	71	72	1	219	0.01	617	0.13	1
19EPC0022	Poblano	72	73	1	220	0.01	772	0.11	1
19EPC0022	Poblano	73	74	1	170	0.01	935	0.10	1
19EPC0022	Poblano	74	75	1	168	0.01	1,537	0.11	1
19EPC0022	Poblano	75	76	1	206	0.00	1,331	0.09	1
19EPC0022	Poblano	76	77	1	206	0.01	1,508	0.06	1
19EPC0022	Poblano	77	78	1	147	0.01	1,457	0.07	1

Hole ID	Target	From (m)	To (m)	Interval (m)	Copper (ppm)	Gold (ppm)	Zinc (ppm)	Silver (ppm)	Bismuth (ppm)
19EPC0022	Poblano	78	79	1	139	0.01	1,544	0.07	1
19EPC0022	Poblano	79	80	1	142	0.01	1,334	0.10	1
19EPC0022	Poblano	80	81	1	168	0.02	1,617	0.11	3
19EPC0022	Poblano	81	82	1	57	0.01	772	0.09	1
19EPC0022	Poblano	82	83	1	46	0.00	549	0.10	1
19EPC0022	Poblano	83	84	1	65	0.01	888	0.08	1
19EPC0022	Poblano	84	88	4	50	0.00	630	0.04	1
19EPC0022	Poblano	88	92	4	39	0.01	292	0.02	2
19EPC0022	Poblano	92	96	4	41	0.01	208	0.04	2
19EPC0022	Poblano	108	112	4	216	0.01	1,139	0.24	38
19EPC0022	Poblano	148	152	4	59	0.01	277	0.09	2
19EPC0022	Poblano	168	169	1	204	0.01	86	0.07	1
19EPC0022	Poblano	169	170	1	226	0.01	92	0.08	1
19EPC0022	Poblano	172	173	1	161	0.01	316	0.12	1
19EPC0022	Poblano	173	174	1	182	0.01	450	0.19	1
19EPC0022	Poblano	174	175	1	222	0.00	465	0.21	1
19EPC0022	Poblano	175	176	1	212	0.05	668	0.36	9
19EPC0022	Poblano	176	180	4	172	0.01	302	0.10	1
19EPC0022	Poblano	180	184	4	108	0.01	258	0.08	1
19EPC0022	Poblano	184	188	4	111	0.01	246	0.08	2
19EPC0022	Poblano	188	192	4	160	0.01	398	0.11	2
19EPC0022	Poblano	192	193	1	221	0.01	1,413	0.24	2
19EPC0022	Poblano	193	194	1	204	0.00	353	0.10	1
19EPC0022	Poblano	196	197	1	163	0.01	252	0.13	2
19EPC0022	Poblano	197	198	1	153	0.01	361	0.12	2
19EPC0022	Poblano	198	199	1	169	0.02	902	0.17	2
19EPC0022	Poblano	199	200	1	194	0.02	1,905	0.41	2
19EPC0022	Poblano	200	201	1	186	0.01	896	0.28	2
19EPC0022	Poblano	201	202	1	186	0.02	257	0.11	2
19EPC0022	Poblano	203	204	1	266	0.01	110	0.09	1
19EPC0022	Poblano	204	208	4	218	0.01	83	0.07	2
19EPC0022	Poblano	211	212	1	111	0.03	826	0.11	3
19EPC0022	Poblano	212	213	1	154	0.09	1,477	0.33	11
19EPC0022	Poblano	213	214	1	140	0.07	904	0.23	10
19EPC0022	Poblano	214	215	1	188	0.05	740	0.17	6
19EPC0022	Poblano	215	216	1	186	0.06	524	0.15	7
19EPC0022	Poblano	216	220	4	190	0.02	350	0.09	3
19EPC0022	Poblano	220	224	4	166	0.01	329	0.09	2
19EPC0022	Poblano	224	228	4	236	0.00	99	0.09	1
19EPC0022	Poblano	228	232	4	229	0.00	79	0.08	1
19EPC0022	Poblano	232	236	4	205	0.01	99	0.07	1
19EPC0022	Poblano	236	240	4	229	0.01	52	0.07	2
19EPC0022	Poblano	244	245	1	107	0.00	544	0.11	1
19EPC0022	Poblano	245	246	1	156	0.00	770	0.17	2
19EPC0022	Poblano	246	247	1	136	0.00	520	0.10	1
19EPC0022	Poblano	247	248	1	169	0.00	1,366	0.17	1
19EPC0022	Poblano	248	252	4	91	0.01	542	0.17	1
19EPC0022	Poblano	252	255	3	116	0.01	586	0.12	2
19EPC0023	AEM32	25	26	1	208	0.00	81	0.00	1
19EPC0023	AEM32	26	27	1	136	0.01	49	0.07	302
19EPC0023	AEM32	27	28	1	294	0.00	94	0.02	35
19EPC0023	AEM32	28	32	4	308	0.00	108	0.05	6
19EPC0023	AEM32	32	36	4	275	0.01	95	0.07	30
19EPC0023	AEM32	36	40	4	222	0.00	78	0.06	7
19EPC0023	AEM32	40	44	4	254	0.00	84	0.05	1
19EPC0023	AEM32	48	52	4	219	0.00	53	0.05	1
19EPC0023	AEM32	52	56	4	227	0.00	62	0.10	1
19EPC0023	AEM32	57	58	1	268	0.00	89	0.11	1
19EPC0023	AEM32	58	59	1	320	0.00	62	0.10	0
19EPC0023	AEM32	59	60	1	442	0.00	91	0.12	1
19EPC0023	AEM32	60	61	1	668	0.00	86	0.21	1
19EPC0023	AEM32	61	62	1	751	0.00	77	0.29	1
19EPC0023	AEM32	62	63	1	561	0.00	64	0.22	1
19EPC0023	AEM32	63	64	1	450	0.00	72	0.14	1
19EPC0023	AEM32	64	65	1	394	0.00	63	0.11	0
19EPC0023	AEM32	65	66	1	357	0.00	62	0.09	1
19EPC0023	AEM32	66	67	1	415	0.00	79	0.15	1
19EPC0023	AEM32	67	68	1	440	0.00	105	0.11	1
19EPC0023	AEM32	68	69	1	308	0.00	95	0.10	1
19EPC0023	AEM32	70	71	1	407	0.00	95	0.08	1
19EPC0023	AEM32	71	72	1	318	0.00	80	0.08	1

Hole ID	Target	From (m)	To (m)	Interval (m)	Copper (ppm)	Gold (ppm)	Zinc (ppm)	Silver (ppm)	Bismuth (ppm)
19EPC0023	AEM32	72	73	1	473	0.00	83	0.11	1
19EPC0023	AEM32	73	74	1	346	0.00	86	0.09	1
19EPC0023	AEM32	74	75	1	202	0.00	99	0.06	2
19EPC0023	AEM32	75	76	1	340	0.00	123	0.15	3
19EPC0023	AEM32	77	78	1	252	0.00	74	0.09	2
19EPC0023	AEM32	78	79	1	239	0.00	24	0.09	0
19EPC0023	AEM32	79	80	1	247	0.00	36	0.10	1
19EPC0023	AEM32	83	84	1	265	0.01	36	0.11	4
19EPC0023	AEM32	84	85	1	326	0.00	98	0.14	1
19EPC0023	AEM32	88	89	1	413	0.00	54	0.15	1
19EPC0023	AEM32	89	90	1	331	0.00	69	0.14	1
19EPC0023	AEM32	90	91	1	306	0.01	80	0.12	1
19EPC0023	AEM32	91	92	1	370	0.00	75	0.19	1
19EPC0023	AEM32	92	93	1	497	0.01	69	0.20	1
19EPC0023	AEM32	93	94	1	298	0.00	74	0.13	1
19EPC0023	AEM32	94	95	1	257	0.00	71	0.11	1
19EPC0023	AEM32	95	96	1	474	0.01	76	0.20	1
19EPC0023	AEM32	96	97	1	263	0.00	89	0.12	1
19EPC0023	AEM32	97	98	1	263	0.00	83	0.10	1
19EPC0023	AEM32	99	100	1	209	0.00	105	0.10	0
19EPC0023	AEM32	104	108	4	203	0.00	46	0.09	0
19EPC0023	AEM32	128	132	4	242	0.00	78	0.11	1
19EPC0023	AEM32	140	144	4	213	0.00	117	0.09	2
19EPC0023	AEM32	144	148	4	251	0.00	74	0.18	3
19EPC0023	AEM32	148	152	4	398	0.00	110	0.19	2
19EPC0023	AEM32	152	153	1	338	0.00	96	0.19	4
19EPC0023	AEM32	153	154	1	398	0.01	89	0.31	10
19EPC0023	AEM32	154	155	1	443	0.00	63	0.33	4
19EPC0023	AEM32	155	156	1	1,075	0.00	123	0.78	5
19EPC0023	AEM32	156	160	4	347	0.00	101	0.29	4
19PNC0004	AEM43	174	175	1	323	0.00	119	0.15	3
19PNC0004	AEM43	229	230	1	80	0.00	731	0.49	4
19PNC0004	AEM43	230	231	1	148	0.01	203	0.28	9
19PNC0004	AEM43	233	234	1	229	0.00	62	0.02	0
19PNC0005	AEM44	160	164	4	40	0.00	214	0.02	0
19PNC0006	AEM44	249	250	1	338	0.01	95	0.11	2
19PNC0008	AEM41	208	209	1	392	0.00	100	0.00	1
19PNC0008	AEM41	209	210	1	426	0.00	103	0.00	1
19PNC0008	AEM41	210	211	1	500	0.00	91	0.00	1
19PNC0008	AEM41	211	212	1	508	0.00	47	0.01	1
19PNC0008	AEM41	212	213	1	506	0.00	77	0.00	1
19PNC0008	AEM41	213	214	1	214	0.00	14	0.01	0
19PNC0009	AEM41	120	121	1	62	0.00	317	0.04	0
19PNC0009	AEM41	121	122	1	116	0.00	262	0.00	0
19PNC0009	AEM41	122	123	1	91	0.00	231	0.04	0
19PNC0009	AEM41	123	124	1	52	0.00	236	0.01	0
19PNC0009	AEM41	124	125	1	51	0.00	275	0.02	0
19PNC0010	AEM42	173	174	1	207	0.00	167	0.17	0
19EPC0002	AEM28	60	64	4	273	0.01	51	0.14	0
19EPC0002	AEM28	64	68	4	520	0.00	48	0.26	1
19EPC0002	AEM28	68	72	4	421	0.01	51	0.25	2
19EPC0002	AEM28	72	76	4	1,064	0.01	64	0.48	1
19EPC0002	AEM28	76	80	4	385	0.00	48	0.19	0
19EPC0002	AEM28	80	84	4	240	0.00	44	0.10	0
19EPC0002	AEM28	104	108	4	235	0.00	46	0.12	0
19EPC0002	AEM28	124	128	4	231	0.01	56	0.11	1
19EPC0002	AEM28	234	235	1	191	0.00	68	0.81	7
19EPC0003	AEM28	12	16	4	251	0.00	93	0.11	1
19EPC0003	AEM28	16	20	4	357	0.00	89	0.07	1
19EPC0003	AEM28	20	24	4	329	0.00	73	0.18	1
19EPC0003	AEM28	24	28	4	500	0.01	193	0.16	0
19EPC0003	AEM28	28	32	4	206	0.01	97	0.08	0
19EPC0003	AEM28	32	36	4	218	0.00	43	0.05	0
19EPC0003	AEM28	36	40	4	221	0.00	41	0.04	0
19EPC0003	AEM28	48	49	1	484	0.01	43	0.09	1
19EPC0003	AEM28	49	50	1	296	0.00	38	0.07	0
19EPC0003	AEM28	50	51	1	233	0.00	44	0.04	0
19EPC0003	AEM28	60	61	1	281	0.00	80	0.08	1



**Notes (Table 1b above):** Table 1b intersections are individual assay intervals reported using the following criteria:

*Intersection Interval = Nominal cut-off grade scenarios:*

- $\geq 200\text{ppm}$  copper which also satisfy a minimum down-hole interval of 1.0m; and/or
- $\geq 0.05\text{ppm}$  gold which also satisfy a minimum down-hole interval of 1.0m; and/or
- $\geq 200\text{ppm}$  zinc which also satisfy a minimum down-hole interval of 1.0m; and/or
- $\geq 0.5\text{ppm g/t}$  silver which also satisfy a minimum down-hole interval of 1.0m; and/or
- $\geq 20\text{ppm}$  bismuth which also satisfy a minimum down-hole interval of 1.0m.
- No top-cutting has been applied to assay results for copper, gold, zinc, silver or bismuth.
- Intersections are down hole lengths, true widths not known with certainty.

**Table 2: Air Core, Slim-line RC and RC Drill Hole Collar Locations (MGA Zone 51/GDA 94)**

Hole ID	Deposit / Target Area	Northing (m)	Easting (m)	RL (m)	Hole Depth (m)	Azimuth (°)	Dip (°)	Assay Status
19MYA0001	AEM4	7,636,350	421,572	250	21	0	-90	Received
19MYA0002	AEM4	7,636,067	421,503	250	21	0	-90	Received
19MYA0003	AEM4	7,636,195	421,467	250	30	0	-90	Received
19EPA0001	AEM13	7,642,829	424,905	250	31	0	-90	Received
19EPA0002	AEM13	7,642,842	425,005	250	31	0	-90	Received
19EPA0003	AEM13	7,642,854	425,105	250	57	0	-90	Received
19EPA0004	AEM13	7,642,867	425,205	250	45	0	-90	Received
19EPA0005	AEM13	7,643,329	424,735	250	36	0	-90	Received
19EPA0006	AEM13	7,643,342	424,834	250	17	0	-90	Received
19EPA0007	AEM13	7,643,354	424,934	250	60	0	-90	Received
19EPA0056	AEM25	7,657,638	418,239	250	64	0	-90	Received
19EPA0057	AEM25	7,657,677	418,272	250	49	0	-90	Received
19EPA0058	AEM25	7,657,715	418,304	250	105	0	-90	Received
19EPA0059	AEM25	7,658,104	417,980	250	79	0	-90	Received
19EPA0060	AEM26	7,658,790	415,246	250	67	0	-90	Received
19EPA0061	AEM26	7,658,829	415,338	250	71	0	-90	Received
19EPA0062	AEM26	7,658,869	415,430	250	94	0	-90	Received
19EPA0063	AEM26	7,658,909	415,523	250	64	0	-90	Received
19EPA0064	AEM26	7,658,949	415,615	250	58	0	-90	Received
19EPA0065	AEM26	7,658,989	415,707	250	76	0	-90	Received
19EPA0066	AEM29	7,666,066	403,244	250	58	0	-90	Received
19EPA0067	AEM29	7,666,103	403,277	250	52	0	-90	Received
19EPA0068	AEM29	7,666,141	403,311	250	48	0	-90	Received
19EPA0069	AEM29	7,665,950	403,478	250	64	0	-90	Received
19EPA0070	AEM29	7,665,987	403,512	250	40	0	-90	Received
19EPA0071	AEM29	7,666,025	403,545	250	37	0	-90	Received
19EPA0072	AEM29	7,666,049	403,568	250	64	0	-90	Received
19EPA0073	AEM28	7,665,972	408,858	250	49	253.0	-60	Received
19EPA0074	AEM28	7,666,002	408,955	250	31	253.0	-60	Received
19EPA0075	AEM28	7,666,032	409,051	250	37	253.0	-60	Received
19EPA0076	AEM28	7,666,062	409,147	250	42	253.0	-60	Received
19EPA0077	AEM30	7,665,587	413,906	250	43	259.0	-60	Received
19EPA0078	AEM30	7,665,604	414,006	250	47	259.0	-60	Received
19EPA0008	AEM13	7,643,367	425,034	250	54	0	-90	Received
19EPA0009	AEM21	7,647,450	417,161	250	32	0	-90	Received
19EPA0010	AEM21	7,647,506	417,244	250	49	0	-90	Received
19EPA0011	AEM21	7,647,563	417,327	250	48	0	-90	Received
19EPA0012	AEM21	7,647,620	417,410	250	54	0	-90	Received
19EPA0013	AEM21	7,647,767	416,916	250	57	0	-90	Received
19EPA0014	AEM21	7,647,823	416,999	250	42	0	-90	Received
19EPA0015	AEM21	7,647,880	417,082	250	59	0	-90	Received
19EPA0016	AEM21	7,647,936	417,165	250	69	0	-90	Received
19EPA0017	AEM16	7,645,607	415,896	250	9	0	-90	Received
19EPA0018	AEM16	7,645,564	415,805	250	10	0	-90	Received
19EPA0019	AEM16	7,645,521	415,714	250	12	0	-90	Received
19EPA0020	AEM16	7,646,104	415,788	250	24	0	-90	Received
19EPA0021	AEM16	7,646,061	415,697	250	75	0	-90	Received
19EPA0022	AEM16	7,646,019	415,606	250	45	0	-90	Received
19EPA0023	AEM16	7,645,976	415,515	250	28	0	-90	Received
19EPA0024	AEM19	7,646,305	424,898	250	108	0	-90	Received
19EPA0025	AEM19	7,646,388	424,955	250	48	0	-90	Received

Hole ID	Deposit / Target Area	Northing (m)	Easting (m)	RL (m)	Hole Depth (m)	Azimuth (°)	Dip (°)	Assay Status
19EPA0026	AEM19	7,646,470	425,012	250	44	0	-90	Received
19EPA0027	AEM19	7,646,553	425,068	250	34	0	-90	Received
19EPA0028	AEM19	7,646,612	424,498	250	63	0	-90	Received
19EPA0029	AEM19	7,646,691	424,559	250	55	0	-90	Received
19EPA0030	AEM19	7,646,770	424,621	250	22	0	-90	Received
19EPA0031	AEM17	7,646,174	422,739	250	38	0	-90	Received
19EPA0032	AEM17	7,646,082	422,702	250	40	0	-90	Received
19EPA0033	AEM17	7,645,984	422,673	250	105	0	-90	Received
19EPA0034	AEM17	7,645,889	422,639	250	94	0	-90	Received
19EPA0035	AEM17	7,645,784	422,604	250	144	0	-90	Received
19EPA0036	AEM16	7,645,766	415,647	250	40	0	-90	Received
19EPA0037	AEM16	7,645,724	415,556	250	19	0	-90	Received
19EPA0038	AEM16	7,645,874	415,875	250	33	0	-90	Received
19EPA0039	AEM16	7,645,831	415,784	250	15	0	-90	Received
19EPA0040	AEM21	7,647,625	417,063	250	47	0	-90	Received
19EPA0041	AEM21	7,647,682	417,146	250	38	0	-90	Received
19EPA0042	AEM24	7,657,262	416,911	250	55	66.4	-60	Received
19EPA0043	AEM24	7,657,302	417,003	250	99	66.4	-60	Received
19EPA0044	AEM24	7,657,342	417,096	250	113	246.5	-60	Received
19EPA0045	AEM24	7,657,382	417,188	250	119	246.5	-60	Received
19EPA0046	AEM24	7,657,422	417,280	250	54	246.5	-60	Received
19EPA0047	AEM25	7,658,002	418,222	250	79	0	-90	Received
19EPA0048	AEM25	7,657,926	418,156	250	90	0	-90	Received
19EPA0049	AEM25	7,657,889	418,123	250	91	0	-90	Received
19EPA0050	AEM25	7,657,851	418,090	250	84	0	-90	Received
19EPA0053	AEM25	7,657,813	418,057	250	112	0	-90	Received
19EPA0054	AEM25	7,657,775	418,024	250	105	0	-90	Received
19EPA0055	AEM25	7,657,964	418,189	250	109	0	-90	Received
19EPA0079	AEM30	7,665,622	414,105	250	49	259.0	-60	Received
19EPA0080	AEM30	7,666,325	413,787	250	46	259.0	-60	Received
19EPA0081	AEM30	7,666,343	413,887	250	50	259.0	-60	Received
19EPA0082	AEM30	7,666,360	413,986	250	56	259.0	-60	Received
19EPA0083	AEM30	7,666,814	413,683	250	83	259.0	-60	Received
19EPA0084	AEM30	7,666,832	413,782	250	67	259.0	-60	Received
19EPA0085	AEM30	7,666,850	413,881	250	45	259.0	-60	Received
19EPA0086	AEM30	7,666,555	413,646	250	55	259.0	-60	Received
19EPA0087	AEM30	7,666,572	413,746	250	56	259.0	-60	Received
19EPA0088	AEM30	7,666,590	413,845	250	55	259.0	-60	Received
19EPA0089	AEM30	7,666,608	413,944	250	48	259.0	-60	Received
19EPA0090	AEM 31	7,668,785	414,395	250	145	197.0	-60	Received
19EPA0091	AEM 31	7,668,689	414,366	250	130	197.0	-60	Received
19EPA0092	AEM 31	7,668,593	414,337	250	100	197.0	-60	Received
19EPA0093	AEM 31	7,668,881	414,424	250	100	197.0	-60	Received
19EPA0094	AEM 31	7,668,977	414,452	250	61	197.0	-60	Received
19EPA0095	AEM 31	7,668,629	414,667	250	85	197.0	-60	Received
19EPA0096	AEM 31	7,668,533	414,639	250	76	197.0	-60	Received
19EPA0097	AEM 31	7,668,725	414,695	250	76	197.0	-60	Received
19EPA0098	AEM 31	7,668,821	414,723	250	49	197.0	-60	Received
19EPA0099	AEM 31	7,668,918	414,751	250	64	197.0	-60	Received
19EPA0100	AEM 31	7,669,014	414,779	250	59	197.0	-60	Received
19EPA0101	AEM28	7,665,957	408,810	250	37	253.0	-60	Received
19EPA0102	AEM28	7,665,987	408,906	250	61	253.0	-60	Received
19EPA0103	AEM28	7,666,017	409,003	250	37	253.0	-60	Received
19EPA0104	AEM28	7,666,047	409,099	250	61	253.0	-60	Received
19EPA0105	AEM39	7,680,539	417,937	250	66	55.0	-70	Received
19EPA0106	AEM39	7,680,598	418,018	250	69	55.0	-70	Received
19EPA0107	AEM39	7,680,658	418,099	250	76	55.0	-70	Received
19EPA0108	AEM39	7,680,687	418,140	250	79	55.0	-70	Received
19EPA0109	AEM39	7,680,895	417,999	250	145	55.0	-70	Received
19EPA0110	AEM39	7,680,835	417,918	250	103	55.0	-70	Received
19EPA0111	AEM39	7,680,776	417,837	250	67	55.0	-70	Received
19EPA0112	AEM39	7,680,998	417,721	250	83	55.0	-70	Received
19EPA0113	AEM38	7,680,189	416,355	250	127	233.0	-60	Received
19EPA0114	AEM38	7,680,249	416,435	250	127	233.0	-60	Received
19EPA0115	AEM38	7,680,309	416,516	250	130	233.0	-60	Received
19EPA0116	AEM38	7,680,299	416,076	250	118	0	-90	Received
19EPA0117	AEM38	7,680,263	416,021	250	130	0	-90	Received
19EPA0118	AEM38	7,680,080	416,624	250	112	233.0	-60	Received
19EPA0119	AEM37	7,678,186	417,779	250	94	234.0	-60	Received
19EPA0120	AEM37	7,678,245	417,860	250	94	234.0	-60	Received

Hole ID	Deposit / Target Area	Northing (m)	Easting (m)	RL (m)	Hole Depth (m)	Azimuth (°)	Dip (°)	Assay Status
19EPA0121	AEM37	7,678,305	417,941	250	90	234.0	-60	Received
19EPA0122	AEM37	7,678,364	418,023	250	85	234.0	-60	Received
19EPA0123	AEM37	7,678,424	418,104	250	103	234.0	-60	Received
19EPA0124	AEM36	7,677,828	416,691	250	93	233.0	-60	Received
19EPA0125	AEM36	7,677,889	416,772	250	81	233.0	-60	Received
19EPA0126	AEM36	7,677,949	416,852	250	79	233.0	-60	Received
19EPA0127	AEM35	7,675,257	418,201	250	68	87.5	-60	Received
19EPA0128	AEM35	7,675,248	418,000	250	72	87.5	-60	Received
19EPA0129	AEM33	7,672,597	418,053	250	114	66.0	-60	Received
19EPA0130	AEM33	7,672,515	417,869	250	109	66.0	-60	Received
19PNC0001	AEM44	7,716,430	366,198	250	129	54.0	-60	Received
19PNC0002	AEM43	7,716,767	364,851	250	91	0.0	-90	Received
19PNC0002A	AEM43	7,716,767	364,851	250	58	0.0	-90	Received
19PNC0002	AEM43	7,716,767	364,851	250	91	0.0	-90	Received
19PNC0003	AEM43	7,716,376	365,005	250	262	0.0	-90	Received
19PNC0004	AEM43	7,716,316	364,926	250	250	0.0	-90	Received
19PNC0005	AEM44	7,716,370	366,119	250	250	0.0	-90	Received
19PNC0007	AEM41	7,722,106	366,444	250	244	0.0	-90	Received
19PNC0008	AEM41	7,722,070	366,351	250	256	0.0	-90	Received
19PNC0009	AEM41	7,722,017	366,212	250	208	0.0	-90	Received
19PNC0010	AEM42	7,723,265	367,380	250	206	0.0	-90	Received
19PNC0011	AEM42	7,723,180	367,619	250	202	0.0	-90	Received
19EPC0001	AEM30	7,666,624	413,990	250	201	259.0	-60	Received
19EPC0002	AEM28	7,665,984	408,876	250	301	252.0	-60	Received
19EPC0003	AEM28	7,666,017	408,979	250	321	252.0	-60	Received
19EPC0004	AEM28	7,666,044	409,069	250	261	252.0	-60	Received
19EPC0005	AEM31	7,668,834	414,408	250	201	197.0	-60	Received
19EPC0006	AEM34	7,672,859	400,872	250	171	206.0	-60	Received
19EPC0007	AEM34	7,673,036	400,964	250	153	206.0	-60	Received
19EPC0008	AEM34	7,673,218	401,042	250	153	206.0	-60	Received
19EPC0009	AEM32	7,671,779	415,926	250	177	244.0	-60	Received
19EPC0010	AEM32	7,671,878	416,119	250	153	244.0	-60	Received
19EPC0011	AEM32	7,671,967	416,289	250	153	244.0	-60	Received
19EPC0012	AEM32	7,671,833	416,020	250	201	246.0	-60	Received
19EPC0013	AEM33	7,672,558	417,960	250	201	66.0	-60	Received
19EPC0014	AEM33	7,672,477	417,777	250	261	66.0	-60	Received
19EPC0015	AEM33	7,672,433	417,684	250	189	220.0	-60	Received
19EPC0016	AEM38	7,680,222	416,396	250	285	233.0	-60	Received
19EPC0017	AEM38	7,680,278	416,476	250	315	233.0	-60	Received
19EPC0018	AEM39	7,680,866	417,959	250	231	55.0	-70	Received
19EPC0019	Poblano	7,671,256	415,763	250	225	240.0	-60	Received
19EPC0020	Serrano	7,670,586	416,227	250	255	230.0	-60	Received
19EPC0021	Serrano	7,670,515	416,152	250	237	230.0	-60	Received
19EPC0022	Poblano	7,671,303	415,852	250	255	240.0	-60	Received
19EPC0023	AEM32	7,672,067	415,929	250	177	210.0	-60	Received
19EPC0024	Arbol	7,669,216	417,554	250	201	263.0	-60	Pending
19EPC0025	AEM30	7,666,585	413,796	250	201	20.0	-60	Pending
19EPC0026	Pixel	7,662,176	437,311	250	294	220.0	-70	Pending

**Notes (Drill Hole Collar Table above):**

- Drill Hole Prefix and drilling technique (Refer to JORC Table 1 Section 1 for full drill technique and sampling details):
  - 19EPA.... = Air Core (AC) and/or Slim-line Reverse Circulation (SLRC);
  - 19EPC.... = Reverse Circulation (RC) – North Telfer Project various tenements; and
  - 19PNC.... = Reverse Circulation (RC) – Paterson Project tenement E45/2519.

## PATERSON PROVINCE – 2019 Air Core, Slim-Line Reverse Circulation and Reverse Circulation Drill Hole Sampling

### JORC Code 2012 Edition: Table 1 - Section 1 Sampling Techniques and Data (Criteria in this section shall apply to all succeeding sections)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> <li>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 down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<p><b>2019 Air Core (AC), Slim-Line Reverse Circulation (SLRC) and Reverse Circulation (RC) Drilling</b></p> <ul style="list-style-type: none"> <li>Prospects/targets have been sampled by 169 AC, SLRC and RC drill holes, totaling 16,898 m, with an average drill hole depth of 97.6 m.</li> <li>Assays have been received for all 131 of the 2019 AC and SLRC drill holes.</li> <li>Assay results have been received for 35 the 2019 RC drill holes and assays are pending for all 3 RC drill holes.</li> <li>AC, SLRC and RC drill holes were generally drilled on a range of hole spacings along line and across line, testing geophysical (AEM <math>\pm</math> aeromagnetic) <math>\pm</math> geochemical targets.</li> <li>Drill hole locations and orientations for all 2019 holes are tabulated in the body of this report.</li> </ul> <p><b>AC, SLRC and RC Sampling</b></p> <ul style="list-style-type: none"> <li>AC, SLRC and RC Sampling was carried out under Antipa protocols and QAQC procedures as per industry best practice.</li> <li>One metre samples were collected from a cyclone into a plastic bucket and then laid out on the ground in rows of 10.</li> <li>Compositing AC, SLRC and RC samples in lengths between 2 to 4 m was undertaken via combining 'Spear' samples of the 1.0 m intervals to generate a 2 kg (average) sample. Areas of anomalous portable XRF Device (Niton or Olympus) ('pXRF') results or zones of encouraging geological observations were sampled as single metres via 'Spear' sample collection for AC/SLRC drill holes and via collection of drill rig cone-splitter collected 1m calico bags for RC drill holes.</li> <li>All samples are pulverised at the laboratory to produce material for assay.</li> </ul>
Drilling techniques	<ul style="list-style-type: none"> <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>	<p><b>Air Core (AC) and Slim-line Reverse Circulation (SLRC) and Reverse Circulation (RC) Drilling</b></p> <ul style="list-style-type: none"> <li>AC and SLRC drilling were undertaken with a Bostech Drillboss 200 4WD truck mounted rig; drill depth capacity of approximately 150 m with an on-board compressor producing 600 cfm at 250 psi and separate axillary booster to 1400 cfm at 700 psi.</li> <li>RC drilling was undertaken with the following rigs: <ul style="list-style-type: none"> <li>Hole prefix '19PNC' (i.e. 12 RC holes) = Austex X50 6x6 truck mounted rig; drill depth capacity of approximately 350 m with an on-board compressor producing 900 cfm at 350 psi and separate 8x8 truck mounted axillary booster providing total air capacity of 2400 cfm at 1000 psi.</li> <li>Hole prefix '19EPC' (i.e. 26 RC holes) = DRA RC600 8x8 truck mounted rig; drill depth capacity of approximately +500 m with an on-board compressor producing 1150 cfm at 500 psi and separate 8x8 truck mounted axillary booster providing total air capacity of 2250 cfm at 1000 psi.</li> </ul> </li> <li>Depending on the local target area geometries inclined drill holes were directed towards various</li> </ul>



Criteria	JORC Code explanation	Commentary
		<p>azimuths ranging from 55° to 260° (GDA94 MGA Zone 51 co-ordinates), with inclination angles ranging from vertical to -60°.</p> <p><b>Air Core Drilling</b></p> <ul style="list-style-type: none"> <li>All drill holes were completed using an 85 mm AC blade.</li> </ul> <p><b>Slim-Line Reverse Circulation Drilling</b></p> <ul style="list-style-type: none"> <li>When hard drilling conditions were encountered an 85 mm “Slim-Line” RC hammer with a crossover sub (not face sampling) was utilised; this drilling technique was variously required/utilised.</li> </ul> <p><b>Reverse Circulation Drilling</b></p> <ul style="list-style-type: none"> <li>A 137.5 mm face sampling RC hammer.</li> </ul>
Drill sample recovery	<ul style="list-style-type: none"> <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>	<p><b>AC, SLRC and RC Drill Samples</b></p> <ul style="list-style-type: none"> <li>AC, SLRC and RC sample recovery and sample quality were recorded via visual estimation of sample volume and condition of the drill spoils.</li> <li>AC, SLRC and RC sample recovery typically ranges from 90 to 100%, with only very occasional samples with less than 70% recovery.</li> <li>AC, SLRC and RC sample recovery was maximized by endeavoring to maintain a dry drilling conditions as much as practicable; the AC samples were almost exclusively dry.</li> <li>Relationships between recovery and grade are not evident and are not expected given the generally excellent and consistently high sample recovery.</li> <li>AC, SLRC and RC results are generated for the purpose of exploration and potentially for Mineral Resource estimations.</li> </ul>
Logging	<ul style="list-style-type: none"> <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>	<p><b>AC, SLRC and RC Drill Logging</b></p> <ul style="list-style-type: none"> <li>Geological logging of 100% of all AC, SLRC and RC sample intervals was carried out recording colour, weathering, lithology, mineralogy, alteration, veining and sulphides.</li> <li>Logging includes both qualitative and quantitative components.</li> <li>All logging is entered directly into a notebook computer using the Antipa Proprietary Logging System which is based on Microsoft Excel. The logging system uses standard look up tables that does not allow invalid logging codes to be entered. Further data validation is carried out during upload to Antipa’s master Access SQL database.</li> <li>AC, SLRC and RC samples were measured for magnetic susceptibility using a handheld Magnetic Susceptibility meter at 1 m intervals.</li> <li>AC, SLRC and RC samples are generally analyzed in the field using a pXRF for the purposes of geochemical and lithological interpretation and the selection of sampling intervals.</li> </ul>
Sub-sampling techniques and	<ul style="list-style-type: none"> <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> </ul>	<p><b>AC, SLRC and RC Samples</b></p> <ul style="list-style-type: none"> <li>One metre samples were collected from a cyclone into a plastic bucket and then laid out on the ground in rows of 10 or 20.</li> </ul>

Criteria	JORC Code explanation	Commentary
sample preparation	<ul style="list-style-type: none"> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to 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> </ul>	<ul style="list-style-type: none"> <li>Compositing AC, SLRC and RC samples of between 2 to 4 m was undertaken via combining 'Spear' samples of the intervals to generate a 2 kg (average) sample. Areas of anomalous pXRF results or anomalous geological observations were sampled as single metres.</li> <li>All samples are pulverised at the laboratory to produce material for assay.</li> </ul> <p><b>AC, SLRC and RC Sample Preparation</b></p> <ul style="list-style-type: none"> <li>Sample preparation of AC, SLRC and RC samples was completed at MinAnalytical Laboratories in Perth following industry best practice in sample preparation involving oven drying, coarse crushing of the AC and SLRC sample down to approximately 10 mm, followed by pulverisation of the entire sample (total prep) using Essa LM5 grinding mills to a grind size of 85% passing 75 µm and split into a sub-sample/s for analysis.</li> <li>The sample sizes are considered to be appropriate to correctly represent the sulphide style of mineralisation encountered in the region, the thickness and consistency of the intersections and the sampling methodology.</li> </ul>
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and 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 style="list-style-type: none"> <li>The sample preparation technique for AC, SLRC and RC samples are documented by Antipa Mineral Ltd's standard procedures documents and is in line with industry standards in sample preparation.</li> <li>The sample sizes are considered appropriate to represent mineralisation.</li> <li>Sample preparation checks for fineness were carried out by the laboratory as part of its internal procedures.</li> </ul> <p><b>AC, SLRC and RC Analytical Techniques</b></p> <ul style="list-style-type: none"> <li>All samples were dried, crushed, pulverised and split to produce a sub-sample for a 10-gram sample which are digested and refluxed with nitric and hydrochloric ('aqua regia digest') acid suitable for weathered AC, SLRC and RC samples. Aqua regia can digest many different mineral types including most oxides, sulphides and carbonates but will not totally digest refractory or silicate minerals. Analytical methods used were both ICP-OES and ICP-MS (Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Fe, Ga, Hf, In, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Pd, Pt, Rb, Re, Sb, Sc, Se, Sn, Sr, Ta, Te, Th, Ti, Tl, U, V, W, Y, Zn and Zr).</li> <li>For samples which returned Au greater than 4,000 ppb Au (upper detection limit) with the aqua regia digest, a lead collection fire assay on a 50-gram sample with Atomic Absorption Spectroscopy was undertaken to determine gold content with a detection limit of 0.005ppm.</li> <li>Ore grade ICP-OES analysis was completed on samples returning results above upper detection limit.</li> <li>No geophysical tools were used to determine any element concentrations in this report.</li> <li>Handheld portable XRF analyser (Niton XL3t 950 GOLDD+ or Olympus Professional) devices are used in the field to investigate and record geochemical data for internal analysis. However, due to 'spatial' accuracy/repeatability issues this data is generally not publicly reported for drill holes, other than for specific purposes/reasons.</li> <li>Field QC procedures involve the use of commercial certified reference material (CRM's) for assay</li> </ul>

Criteria	JORC Code explanation	Commentary
		<p>standards and blanks. Standards are inserted every 50 samples. The grade of the inserted standard is not revealed to the laboratory.</p> <ul style="list-style-type: none"> <li>Repeat QC samples was utilised during the AC, SLRC and RC drilling programme with nominally two to three duplicate AC, SLRC and RC field samples per drill hole.</li> <li>Inter laboratory cross-checks analysis programmes have not been conducted at this stage.</li> <li>In addition to Antipa supplied CRM's, MinAnalytical includes in each sample batch assayed certified reference materials, blanks and up to 10% replicates.</li> <li>Selected anomalous samples are re-digested and analysed to confirm results.</li> <li>Based on laboratory assay results Antipa undertakes 1 m re-splits of selected mineralised 4 m composite samples.</li> <li>For drill holes where visual and/or laboratory assay results indicate the presence of significant mineralisation Antipa also undertakes programmes of 50 gram fire assaying to supersede the 10 gram aqua regia gold results; as the later analytical technique is prone to underestimating gold grade due to sample digestion issues, particularly for gold mineralisation associated with silicification and quartz veins, as fine gold can remain encapsulated in the undigested silica.</li> </ul>
Verification of sampling and assaying	<ul style="list-style-type: none"> <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>	<ul style="list-style-type: none"> <li>Significant intersections have been visually verified by one or more alternative company personnel and/or contract employees.</li> <li>All logging is entered directly into a notebook computer using the Antipa Proprietary Logging System which is based on Microsoft Excel. The logging system uses standard look up tables that does not allow invalid logging codes to be entered. Further data validation is carried out during upload to Antipa's master SQL database.</li> <li>No adjustments or calibrations have been made to any assay data collected.</li> </ul>
Location of data points	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>km = kilometre; m = metre; mm = millimetre.</li> <li>Drill hole collar locations are surveyed using a handheld Garmin 64S GPS which has an accuracy of <math>\pm 3</math> m.</li> <li>The drilling co-ordinates are all in GDA94 MGA Zone 51 co-ordinates.</li> <li>Vertical AC, SLRC and RC drill holes do not require for drill rig set-up azimuth checking.</li> <li>Inclined AC, SLRC and RC drill holes are checked for drill rig set-up azimuth using Suunto Sighting Compass from two directions.</li> <li>Drill hole inclination is set by the driller using a clinometer on the drill mast and checked by the geologist prior the drilling commencing.</li> <li>AC, SLRC and RC drill hole down hole surveys <ul style="list-style-type: none"> <li>No downhole surveys are undertaken for AC, SLRC and RC drill holes.</li> </ul> </li> <li>If defaulted, the topographic surface is set to 250m RL.</li> </ul>
Data spacing and distribution	<ul style="list-style-type: none"> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to</li> </ul>	<ul style="list-style-type: none"> <li>AC, SLRC and RC drill sample compositing is sometimes applied for the reporting of the exploration results.</li> </ul>

Criteria	JORC Code explanation	Commentary
	<p><i>establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</i></p> <ul style="list-style-type: none"> <li><i>Whether sample compositing has been applied.</i></li> </ul>	<ul style="list-style-type: none"> <li>Regional Geophysical Targets (AEM <math>\pm</math> aeromagnetic):             <ul style="list-style-type: none"> <li>Drill spacing was variable depending on target rank, target dimensions (along strike and/or across strike); if more than one drill line per target then drill lines were generally spaced approximately 250 to 750 m apart with an average drill hole spacing on each section between 50 to 100 m</li> <li>The typical section spacing/drill hole distribution is not considered adequate for the purpose of Mineral Resource estimation.</li> </ul> </li> </ul>
<i>Orientation of data in relation to geological structure</i>	<ul style="list-style-type: none"> <li><i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i></li> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>No consistent and/or documented material sampling bias resulting from a structural orientation has been identified for the “regional” geophysical targets at this point in time.</li> <li>However, both folding, multiple vein directions and faulting have been variously recorded in the region via diamond drilling and surface mapping.</li> </ul>
<i>Sample security</i>	<ul style="list-style-type: none"> <li><i>The measures taken to ensure sample security.</i></li> </ul>	<ul style="list-style-type: none"> <li>Chain of sample custody is managed by Antipa to ensure appropriate levels of sample security.</li> <li>Samples are stored on site and delivered by Antipa or their representatives to Port Hedland and subsequently by Toll Ipec Transport from Port Hedland to the assay laboratory in Perth.</li> </ul>
<i>Audits or reviews</i>	<ul style="list-style-type: none"> <li><i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>	<ul style="list-style-type: none"> <li>Sampling techniques and procedures are regularly reviewed internally, as is the data.</li> <li>Consultants Snowden, during completion of the 2013 Calibre Mineral Resource estimate, undertook a desktop review of the Company’s sampling techniques and data management and found them to be consistent with industry standards.</li> </ul>

## PATERSON PROVINCE – 2019 Air Core and Slim-Line Reverse Circulation Drill Hole Sampling

### Section 2 – Reporting of Exploration Results (Criteria listed in the preceding section also apply to this section)

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> <li><i>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.</i></li> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>North Telfer Project tenement E45/3917 was applied for by Antipa Resources Pty Ltd on the 18<sup>th</sup> of May 2011 and was subsequently granted on the 18<sup>th</sup> February 2014.</li> <li>North Telfer Project tenements E45/3918 and E45/3919 were applied for by Antipa Resources Pty Ltd on the 18<sup>th</sup> of May 2011 and was subsequently granted on the 24<sup>th</sup> April 2013.</li> <li>Paterson Project tenement E45/2519 was applied for by Kitchener Resources Pty Ltd (a wholly owned Antipa subsidiary) on the 4<sup>th</sup> of July 2003 and was subsequently granted on the 18<sup>th</sup> December 2014.</li> <li>Antipa Minerals Ltd has a 100% interest in all the above listed tenements.</li> <li>A 1% net smelter royalty payable to Paladin Energy on the sale of product on all metals applies to tenements E45/3917, E45/3918 and E45/3919 as a condition of a Split Commodity Agreement with Paladin Energy in relation to the Company's North Telfer Project.</li> <li>A 1% net smelter royalty payable to Yandal Investments Pty Ltd (Yandal) on the sale of product on all metals applies to tenements E45/2519 as a condition of an Agreement with Yandal in relation to the Company's Paterson Project.</li> <li>Tenements E45/2519, E45/3917, E45/3918 and E45/3919, including the Minyari and WACA deposits, are not subject to the Citadel Project Farm-in Agreement with Rio Tinto Exploration Pty Ltd.</li> <li>All tenements excluding E45/2519 are contained completely within land where the Martu People have been determined to hold native title rights. Tenement E45/2519 is contained completely within land where the Nyangumarta People have been determined to hold native title rights. To the Company's knowledge only one historical site has been identified in the area of work and no environmentally sensitive sites have been identified in the area of work.</li> <li>Land Access and Exploration Agreements are in place with the Martu People and Nyangumarta People.</li> <li>Antipa maintains a positive relationship with the Martu People and Nyangumarta People, who are Native Title parties in the area.</li> <li>The tenements are in 'good standing' and no known impediments exist.</li> </ul>
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> <li><i>Acknowledgment and appraisal of exploration by other parties.</i></li> </ul>	<ul style="list-style-type: none"> <li>The exploration of North Telfer Project area was variously conducted by the following major resources companies: <ul style="list-style-type: none"> <li>Western Mining Corporation Ltd (1980 to 1983);</li> <li>Newmont Holdings Pty Ltd (1984 to 1990);</li> <li>MIM Exploration Pty Ltd (1990 to 1993) – Completed 18 vertical RAB drill holes (i.e. RE1 to RE11 and RE19 to RE25) between 1991 to 1994 for a total of 489 m at an average drill hole depth of 27 m in the broader Serrano-Poblano area. Best drill result was 4 m @ 450 ppm copper adjacent to Serrano. References WA DMIRS WAMEX publicly available reports A37683 and A42961.</li> <li>Newcrest Mining Limited (1991 to 2015); and</li> </ul> </li> </ul>



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		<ul style="list-style-type: none"> <li>Antipa Minerals Ltd (2013 onwards).</li> <li>The exploration of Paterson Project area was variously conducted by the following major resources companies: <ul style="list-style-type: none"> <li>Prior to 1980 limited to no mineral exploration activities;</li> <li>BHP Australia (1991 to 1997);</li> <li>Antipa Minerals Ltd (2011 onwards).</li> </ul> </li> </ul>
Geology	<ul style="list-style-type: none"> <li><i>Deposit type, geological setting and style of mineralisation.</i></li> </ul>	<p>North Telfer Project and Paterson Project Tenement Areas:</p> <ul style="list-style-type: none"> <li>The geological setting is Paterson Province Proterozoic aged meta-sediment hosted hydrothermal shear, fault and strata/contact controlled precious and/or base metal mineralisation which is typically sulphide bearing. The mineralisation in the region is interpreted to be granite related. The Paterson is a low-grade metamorphic terrane but local hydrothermal alteration and/or contact metamorphic mineral assemblages and styles are indicative of a high-temperature local environment. Mineralisation styles include vein, stockwork, breccia and skarns.</li> </ul>
Drill hole Information	<ul style="list-style-type: none"> <li><i>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:</i> <ul style="list-style-type: none"> <li><i>easting and northing of the drill hole collar</i></li> <li><i>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</i></li> <li><i>dip and azimuth of the hole</i></li> <li><i>down hole length and interception depth</i></li> <li><i>hole length.</i></li> </ul> </li> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>A summary of all available information material to the understanding of the exploration region exploration results can be found in previous Western Australia (WA) DMIRS publicly available reports.</li> <li>All the various technical and exploration reports are publicly accessible via the WA DMIRS' online WAMEX system.</li> <li>The specific WA DMIRS WAMEX and other reports related to the exploration information the subject of this public disclosure have been referenced in previous public reports.</li> <li>Antipa Minerals Ltd publicly disclosed reports provide details of all exploration completed by the Company since 2011; these reports are all available to view on <a href="http://www.antipaminerals.com.au">www.antipaminerals.com.au</a> and <a href="http://www.asx.com.au">www.asx.com.au</a>.</li> </ul>
Data aggregation methods	<ul style="list-style-type: none"> <li><i>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</i></li> <li><i>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.</i></li> <li><i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></li> </ul>	<ul style="list-style-type: none"> <li>Any reported aggregated intervals have been length weighted.</li> <li>No density or bulk density is available and so no density weighting has been applied when calculating aggregated intervals.</li> <li>No top-cuts to gold or copper have been applied (unless specified otherwise).</li> <li>A nominal 0.40 g/t gold or 1,000 ppm (0.10%) copper lower cut-off grade is applied.</li> <li>Higher grade intervals of mineralisation internal to broader zones of mineralisation are reported as included intervals.</li> <li>Metal equivalence is not used in this report.</li> </ul>
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> <li><i>These relationships are particularly important in the reporting of Exploration Results.</i></li> <li><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></li> <li><i>If it is not known and only the down hole lengths are reported,</i></li> </ul>	<ul style="list-style-type: none"> <li>Regional Geophysical Targets (AEM ± aeromagnetic): <ul style="list-style-type: none"> <li>The drill section spacing and sampling, at this stage, is insufficient to establish the geometrical relationships between the drill holes and any mineralised structures.</li> <li>Therefore, at this stage the reported intersection lengths are down hole in nature and the</li> </ul> </li> </ul>

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	<i>there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</i>	true width, which will be dependent on the local mineralisation geometry/setting, is not known.
<i>Diagrams</i>	<ul style="list-style-type: none"> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	<ul style="list-style-type: none"> <li>All appropriate maps and sections (with scales) and tabulations of intercepts are reported or can sometimes be found in previous WA DMIRS WAMEX publicly available reports.</li> <li>Antipa Minerals Ltd publicly disclosed reports provide maps and sections (with scales) and tabulations of intercepts generated by the Company since 2011; these reports are all available to view on <a href="http://www.antipaminerals.com.au">www.antipaminerals.com.au</a> and <a href="http://www.asx.com.au">www.asx.com.au</a>.</li> </ul>
<i>Balanced reporting</i>	<ul style="list-style-type: none"> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</li> </ul>	<ul style="list-style-type: none"> <li>All significant results are reported or can sometimes be found in previous WA DMIRS WAMEX publicly available reports.</li> <li>Antipa Minerals Ltd publicly disclosed reports provide details of all significant exploration results generated by the Company since 2011; these reports are all available to view on <a href="http://www.antipaminerals.com.au">www.antipaminerals.com.au</a> and <a href="http://www.asx.com.au">www.asx.com.au</a>.</li> </ul>
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> <li>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</li> </ul>	<ul style="list-style-type: none"> <li>All meaningful and material information has been included in the body of the text or can sometimes be found in previous WA DMIRS WAMEX publicly available reports.</li> <li>Zones of mineralisation and associated waste material have not been measured for their bulk density.</li> <li>Multi element assaying was conducted variously for a suite of potentially deleterious elements including arsenic, sulfur, lead, zinc and magnesium.</li> <li>To date no downhole 'logging' surveys have been completed for the 2019 drill holes.</li> <li>Geotechnical logging (e.g. Recovery, RQD and Fracture Frequency) is not possible for AC, SLRC and RC drill material and none was obtained from the WA DMIRS WAMEX reports.</li> <li>Limited downhole information on structure type, dip, dip direction, alpha angle, beta angle, gamma angle, texture and fill material were obtained from the Company's pre-existing SQL database and WA DMIRS WAMEX reports.</li> <li>Metallurgical test-work results available on these particular tenements is restricted to the Minyari-WACA gold-copper-silver-cobalt deposits. Preliminary metallurgical test-work results are available for both the Minyari and WACA deposits. Details of this 2017 metallurgical test-work programme can be found on the ASX or Antipa websites – Public release dated 13 June 2017 and titled "Minyari Dome Positive Metallurgical Test-work Results". In summary both oxide and primary gold mineralisation (with accessory copper and cobalt) responded very satisfactorily to conventional gravity and cyanidation processes, with flotation to recovery copper and cobalt by-products the subject of ongoing evaluation. These reports are all available to view on <a href="http://www.antipaminerals.com.au">www.antipaminerals.com.au</a> and <a href="http://www.asx.com.au">www.asx.com.au</a>.</li> <li>In addition, the following information in relation to the Minyari deposit metallurgy was obtained from WA DMIRS WAMEX reports: <ul style="list-style-type: none"> <li>Newmont Holdings Pty Ltd collected two bulk (8 tonnes each) metallurgical samples of</li> </ul> </li> </ul>

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		<p>oxide mineralisation in 1987 (i.e. WAMEX 1987 report A24464) from a 220m long costean across the Minyari deposit. The bulk samples were 8 tonnes grading 1.5 g/t gold and 8 tonnes grading 3.57 g/t gold from below shallow cover in the costean. However, it would appear the Newmont metallurgical test-work for these two bulk samples was never undertaken/competed as no results were subsequently reported to the WA DMIRS;</p> <ul style="list-style-type: none"> <li>Newmont Holdings Pty Ltd also collected drill hole metallurgical samples for Minyari deposit oxide and primary mineralisation (i.e. WAMEX 1986 report A19770); however, subsequent reporting of any results to the WA DMIRS could not be located suggesting that the metallurgical test-work was never undertaken/competed.</li> <li>Newcrest Mining Ltd describe the Minyari deposit gold-copper mineralisation as being typical of the Telfer gold-copper mineralisation. In 2004 and 2005 (WAMEX reports A71875 and A74417) Newcrest commenced metallurgical studies for the Telfer Mine and due to the similarities with the Minyari mineralisation a portion of this Telfer metallurgical test-work expenditure was apportioned to the then Newcrest Minyari tenements. Whilst Telfer metallurgical results are not publicly available, the Telfer Mining operation (including ore processing facility) was materially expanded in the mid-2000's and continues to operate with viable metallurgical recoveries (for both oxide and primary mineralisation).</li> </ul>
Further work	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul style="list-style-type: none"> <li>Planned further work: <ul style="list-style-type: none"> <li>Ongoing review and interpretations of the 2019 and historical exploration data;</li> <li>Planning and execution of follow-up exploration activities to identify potential high-grade mineralisation;</li> <li>Geophysical data modelling (including AEM and Aeromagnetics); and</li> <li>Full geological interpretation including 3D modelling.</li> </ul> </li> <li>All appropriate maps and sections (with scales) and tabulations of intercepts are reported or can sometimes be found in previous WA DMIRS WAMEX publicly available reports.</li> </ul>