

#### ASX Announcement

March 17, 2021

## **Activities Update**

BBX Minerals Limited (ASX:BBX) ("BBX" or the "Company") is pleased to provide an update on its ongoing drilling program at Três Estados, Amazonas, Brazil and on the Company's metallurgical testing program.

## **Drilling update**

Diamond drilling is progressing on schedule with 23 holes having been completed for a total of 1697.5m (appendix 1). The bulk of the holes at Adelar and Daniel intersected a zone of intense hematite alteration and local brecciation (figs 3, 4) within the mafic intrusive. This zone is frequently overlain by relatively unaltered dolerite and locally underlain by a zone of magnetitechlorite alteration (see appendix 2). Selected intervals will be submitted to SGS in Belo Horizonte for standard fire assay and multi-element ICP analysis. Similar but less intense hematitic alteration was identified in previous RC drilling at Adelar, but no significant results were obtained by routine fire assay. There is currently no indication that this alteration has a direct relationship with mineralisation.

A further 6 holes are planned at Três Estados (see fig. 1) prior to relocation to Ema.

## **Metallurgical test work**

In conjunction with IPT, BBX is continuing with the development and enhancement of the Company's analytical and extraction techniques for gold and PGM's not recoverable by conventional methods. The 3 tonne bulk testing program at IPT is proceeding on schedule, with the complex 6-stage crushing, pulverisation and homogenisation procedure having been completed during the week commencing March 1 (see appendix 3). Mineral characterisation and pyrometallurgical test work was initiated during the week commencing March 8. Initial results from this program and parallel testing of BBX's preferred analytical technique will be released as soon as they become available.

**Brazillian Office** 

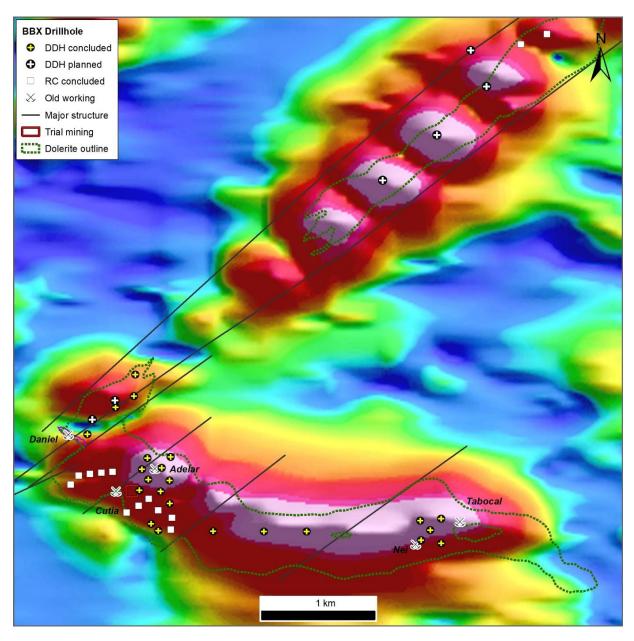


Fig. 1. Três Estados drilling program and regional aero magnetics (analytical signal)

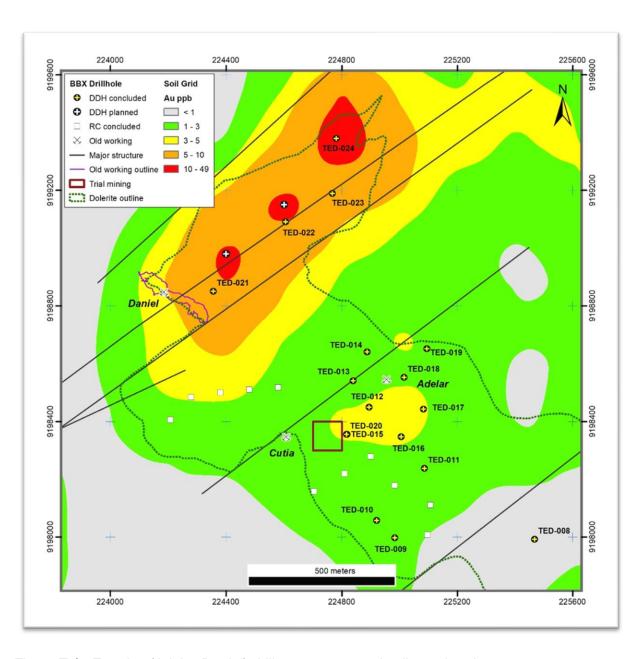


Fig. 2. Três Estados (Adelar-Daniel) drill programme and soil geochemistry



Fig. 3. Example of strong hematite alteration - TED-012



Fig. 4. Example of hematite breccia - TED-014

Registered Office Level 1, 9 Bowman Street South Perth WA

T. +61 8 6955 2955 F. +61 8 6210 1153 Brazillian Office Av Jornalista Riccardo Marinho 360, Sala 113 Barra da Tijuca Rio de Janeiro

#### For more information:

André Douchane CEO **BBX Minerals Ltd** 

### **Competent Person Statement**

The information in this report that relates to analytical test results of gold mineralisation in the Apui region in Brazil is based on information compiled by Mr. Antonio de Castro, BSc (Hons), MAusIMM, CREA, who acts as BBX's Senior Consulting Geologist through the consultancy firm, ADC Geologia Ltda. Mr. de Castro has sufficient experience which is relevant to the type of deposit under consideration and to the reporting of exploration results and analytical and metallurgical testwork to qualify as a competent person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. de Castro consents to the report being issued in the form and context in which it appears.

CREA/RJ:02526-6D AusIMM:230624

#### **About BBX Minerals Ltd**

BBX Minerals Limited is a mineral exploration and technology company listed on the Australian Securities Exchange. Its major focus is Brazil, mainly in the southern Amazon, a region BBX believes is vastly underexplored with high potential for the discovery of world class gold and precious metal deposits.

BBX's key assets are the Juma East, Três Estados and Ema Gold Projects in the Apuí region, Amazonas State. The company has 340.9km<sup>2</sup> of exploration tenements within the Colider Group, a prospective geological environment for gold, PGM and base metal deposits. The region is under-explored and has the potential to provide BBX with a pipeline of high-growth, greenfields precious metal discoveries.

Appendix 1: Completed drill holes, Três Estados, 2020-21

Hole ID	Target	Easting*	Northing*	R.L. (m)	Depth (m)	Dip (deg)
TED-001	TABOCAL	227487.0	9198105.0	151.0	50.16	-90
TED-002	TABOCAL	227391.0	9198003.0	174.0	74.48	-90
TED-003	TABOCAL	227303.0	9198087.0	163.0	55.02	-90
TED-004	TABOCAL	227487.0	9197886.0	166.0	65.59	-90
TED-005	TABOCAL	227316.0	9197911.0	193.0	93.35	-90
TED-006	CENTRAL	226298.0	9197990.0	171.0	71.64	-90
TED-007	CENTRAL	225918.0	9197990.0	169.0	70.20	-90
TED-008	CENTRAL	225468.0	9197993.0	184.0	85.12	-90
TED-009	ADELAR	224983.0	9197998.0	186.0	86.09	-90
TED-010	ADELAR	224920.0	9198058.0	171.0	51.00	-90
TED-011	ADELAR	225085.0	9198238.0	162.0	61.25	-90
TED-012	ADELAR	224894.0	9198450.0	180.0	80.74	-90
TED-013	ADELAR	224839.0	9198541.0	171.0	71.12	-90
TED-014	ADELAR	224887.0	9198641.0	161.0	61.62	-90
TED-015	ADELAR	224818.0	9198356.0	191.0	91.88	-90
TED-016	ADELAR	225003.0	9198351.0	190.0	91.02	-90
TED-017	ADELAR	225082.0	9198443.0	187.0	87.05	-90
TED-018	ADELAR	225015.0	9198553.0	152.0	57.52	-90
TED-019	ADELAR	225094.0	9198652.0	149.0	52.06	-90
TED-020	ADELAR	224816.0	9198356.0	191.0	91.00	-90
TED-021	DANIEL	224356.0	9198851.0	137.0	100.32	-90
TED-022	DANIEL	224605.0	9199091.0	167.0	60.10	-90
TED-023	DANIEL	224767.0	9199189.0	147.0	89.18	-90

\*Datum: WGS84 Projection: UTM21S

Appendix 2: Alteration style for Três Estados diamond drill holes (unlisted holes display little or no alteration)

HOLE ID	FROM	то	ROCK TYPE	ALTERATION
TED-009	3.00	12.00	Dolerite	Hematite
160-009	12.00	86.09	Dolerite breccia	Hematite
TED-010	11.00	51.00	Dolerite	Hematite
TED-011	25.30	41.20	Dolerite	Hematite
160-011	41.20	61.25	Dolerite	Chlorite-magnetite
	11.77	22.65	Dolerite	Hematite
TED-012	22.65	33.10	Dolerite breccia	Hematite
160-012	33.10	59.60	Dolerite	Hematite
	59.60	80.74	Dolerite	Chlorite-magnetite
	23.75	30.90	Dolerite	Hematite
TED-013	30.90	62.25	Dolerite breccia	Hematite
	62.25	71.12	Dolerite	Chlorite-magnetite
TED 014	36.48	37.55	Dolerite	Hematite
TED-014	37.55	61.62	Dolerite breccia	Hematite
TED-015	10.00	91.88	Dolerite	Hematite
TED-016	15.00	91.03	Dolerite	Hematite
	49.80	61.00	Dolerite	Hematite
TED-017	61.00	65.00	Dolerite breccia	Carbonate
	65.00	87.05	Dolerite	Chlorite-magnetite
TED-018	37.00	57.52	Dolerite breccia	Hematite
TED 010	27.00	35.00	Rhyolite	Hematite
TED-019	35.00	52.06	Rhyolite breccia	Hematite
TED-021	0.00	35.70	Dolerite	Hematite
160-021	35.70	100.82	Dolerite breccia	Hematite
	25.84	28.00	Dolerite	Hematite
TED-022	28.00	51.70	Dolerite	Hematite
	51.70	60.10	Dolerite breccia	Silica
TED 022	16.00	51.90	Dolerite	Hematite
TED-023	51.90	89.18	Dolerite breccia	Hematite

**Registered Office** 

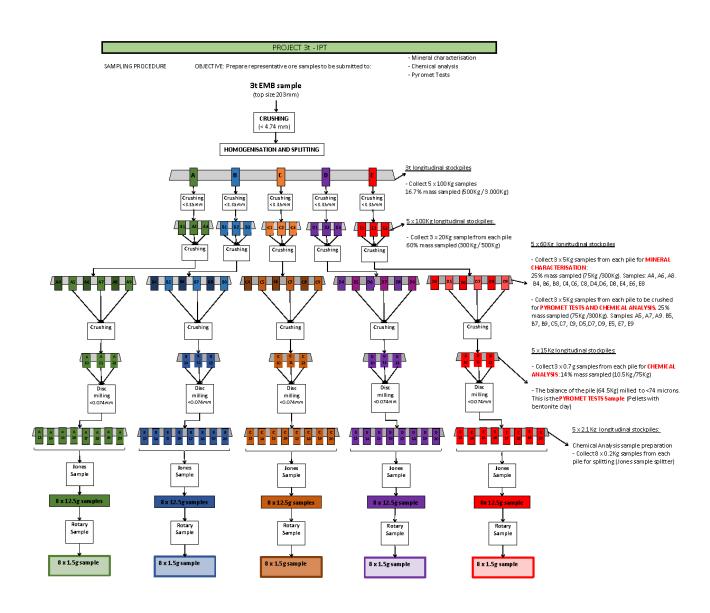
T. +61 8 6955 2955

F. +61 8 6210 1153

Level 1, 9 Bowman Street South Perth WA

**Brazillian Office** Av Jornalista Riccardo Marinho 360, Sala 113 Barra da Tijuca Rio de Janeiro

Appendix 3: Three tonne sample preparation and homogenisation program conducted by IPT



**Brazillian Office** 

Av Jornalista Riccardo Marinho 360, Sala 113 Barra da Tijuca Rio de Janeiro

# Appendix 4

The following Table and Sections are provided to ensure compliance with JORC Code (2012 Edition).

TABLE 1 – Section 1: Sampling Techniques and Data – RC and diamond drilling

Criteria	JORC Code Explanation	Commentary
Sampling Techniques	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.	<ul> <li>This announcement refers to descriptions of drill core from Três Estados diamond drilling</li> <li>No sampling details or assay results are referred to in this announcement</li> </ul>
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	No sampling details or assay results are referred to in this announcement
	Aspects of the determination of mineralisation that are Material to the Public Report. In cases where "industry standard" work has been done this would re relatively simple (e.g. 'reverse circulation drilling was used to obtain 1m samples from which 3kg was pulverised to produce a 30g 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.	No sampling details or assay results are referred to in this announcement.
Drilling Techniques	Drill types (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).	Diamond drilling was conducted using an EDG S11 mobile rig supplied by Energold Ltd. Drilling diameter was NQ in the upper portion of the hole, reducing to BQ in fresh rock after casing of the upper portion. Core was not oriented.

**BBX Minerals Ltd.** ASX: BBX www.bbxminerals.com.au **Registered Office** Level 1, 9 Bowman Street

South Perth WA

T. +61 8 6955 2955 F. +61 8 6210 1153

**Brazillian Office** Av Jornalista Riccardo Marinho 360, Sala 113 Barra da Tijuca Rio de Janeiro

D.::II	Mothed of recording size	Diamond recovery was leaved by
Drill Sample Recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assayed.</li> </ul>	<ul> <li>Diamond recovery was logged by the on-site geologist as part of the routine core logging process</li> </ul>
	<ul> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> </ul>	<ul> <li>Drilling recovery was in excess of 95% throughout the interval sampled.</li> </ul>
	<ul> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine /course material.</li> </ul>	<ul> <li>No sampling details or assay results are referred to in this announcement</li> </ul>
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.	<ul> <li>Drill core was geologically and geotechnically logged by the site geologist in the company's core storage facility in Apui</li> </ul>
	<ul> <li>Whether logging is qualitative or quantitative in nature. Core (or costean. channel. etc) photography.</li> </ul>	<ul> <li>Logging was predominantly qualitative in nature. All core was routinely photographed</li> </ul>
	<ul> <li>The total length and percentages of the relevant intersections logged.</li> </ul>	<ul> <li>100% of the core was geologically logged.</li> </ul>
Sub- Sampling Techniques and Sampling	<ul> <li>If core. whether cut or sawn and whether quarter. half or all core taken.</li> </ul>	No sampling details or assay results are referred to in this announcement
Procedures	<ul> <li>If non-core. whether riffled. tube sampled. rotary split etc and whether sample wet or dry.</li> </ul>	<ul> <li>No sampling details or assay results are referred to in this announcement</li> </ul>
	For all sample types. the nature. quality and appropriateness of the sample preparation technique.	No sampling details or assay results are referred to in this announcement
	Quality control procedures adopted for all sub – sampling stages to maximise "representivity" of samples.	No sampling details or assay results are referred to in this announcement
	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.	<ul> <li>No sampling details or assay results are referred to in this announcement</li> </ul>

Registered Office Level 1, 9 Bowman Street South Perth WA

T. +61 8 6955 2955

F. +61 8 6210 1153

**Brazillian Office** Av Jornalista Riccardo Marinho 360, Sala 113 Barra da Tijuca Rio de Janeiro

	<ul> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul> <li>No sampling details or assay results are referred to in this announcement</li> </ul>
Quality of Assay Data and Laboratory Tests	The nature quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	No sampling details or assay results are referred to in this announcement
	<ul> <li>For geophysical tools. spectrometers. hand held 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> </ul>	No sampling details or assay results are referred to in this announcement
	<ul> <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>	No sampling details or assay results are referred to in this announcement
Verification of Sampling and Assaying	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> </ul>	<ul> <li>No sampling details or assay results are referred to in this announcement</li> </ul>
	<ul> <li>The use of twinned holes</li> <li>Documentation of primary data. data entry procedures. data verification. data storage (physical and electronic) protocols.</li> </ul>	No twinned holes were used     Geological data is logged into Excel spreadsheets on site for transfer into the drill hole database. Microsoft Access is used for database storage and management and incorporates numerous data
	Discuss any adjustment to assays	<ul> <li>validation and integrity checks.</li> <li>No sampling details or assay results are referred to in this announcement</li> </ul>
Location of Data Points	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down hole surveys). trenches. mine workings and other locations used in Mine Resource estimation</li> </ul>	<ul> <li>Drill collar locations were surveyed by GPS, at an estimated accuracy of 2m.</li> </ul>
	<ul> <li>Specification of grid system used</li> </ul>	UTM WGS84 zone 21S.
	<ul> <li>Quality and adequacy of topographic control.</li> </ul>	<ul> <li>Topographic control is achieved via the use of government topographic maps. in association with GPS and Digital Terrain Maps (DTM's).</li> </ul>
Data Spacing and Distribution	Data spacing for reporting of Exploration results.  Whether the data spacing and	<ul> <li>No sampling details or assay results are referred to in this announcement</li> </ul>
	<ul> <li>Whether the data spacing and distribution is sufficient to establish the degree of</li> </ul>	<ul> <li>No sampling details or assay results are referred to in this announcement</li> </ul>

**Registered Office** Level 1, 9 Bowman Street South Perth WA

T. +61 8 6955 2955

F. +61 8 6210 1153

**Brazillian Office** Av Jornalista Riccardo Marinho 360, Sala 113 Barra da Tijuca Rio de Janeiro

	analasiaal and	
	geological and grade	
	continuity appropriate for the	
	Mineral Resource and Ore	
	Reserve estimation	
	procedure(s) and	
	classification applied.	
	<ul> <li>Whether sample compositing</li> </ul>	<ul> <li>No sampling details or assay results</li> </ul>
	has been applied.	are referred to in this announcement
Orientation of	<ul> <li>Whether the orientation of</li> </ul>	<ul> <li>No sampling details or assay results</li> </ul>
Data in relation	sampling achieves unbiased	are referred to in this announcement
to Geological	sampling of possible	
Structure	structures and the extent to	
ou dotai o	which is known. considering	
	the deposit type.	
	<ul> <li>If the relationship between the</li> </ul>	<ul> <li>No sampling details or assay results</li> </ul>
	drilling orientation and the	are referred to in this announcement
	orientation of key mineralised	
	structures is considered to	
	have introduced a sampling	
	bias. This should be assessed	
	and reported if material.	
Sample security	<ul> <li>The measures taken to</li> </ul>	<ul> <li>No sampling details or assay results</li> </ul>
	ensure sample security.	are referred to in this announcement
Audit or	<ul> <li>The results of any audits or</li> </ul>	<ul> <li>No sampling details or assay results</li> </ul>
Reviews	reviews of sampling	are referred to in this announcement
	techniques and data.	

# Section 2: Reporting of Exploration Results – diamond drilling

Criteria	JORC Code Explanation	Commentary
Mineral Tenement and Land Tenure Status	Type reference name/number. location and ownership including agreements or material issues with third parties such as joint ventures. partnerships. overriding royalties. native title interests. historical sites. wilderness or national park and environmental settings.	The Três Estados lease is 100% owned by BBX with no issues in respect to native title interests, historical sites, wilderness or national park and environmental settings.
	<ul> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area</li> </ul>	The company is not aware of any impediment to obtain a licence to operate in the area
Exploration done by Other Parties	<ul> <li>Acknowledgment and appraisal of exploration by other parties</li> </ul>	<ul> <li>No exploration by other parties has been conducted in the region</li> </ul>
Geology	Deposit type. geological setting and style of mineralisation	The geological setting of the area reported in this announcement is that of a hydrothermally altered mafic intrusive within Proterozoic volcanic and volcanoclastic rocks. The precise nature of this style of igneous rockhosted precious metal

**BBX Minerals Ltd.** ASX: BBX www.bbxminerals.com.au

**Registered Office** Level 1, 9 Bowman Street South Perth WA

T. +61 8 6955 2955

F. +61 8 6210 1153

**Brazillian Office** Av Jornalista Riccardo Marinho 360, Sala 113 Barra da Tijuca

Rio de Janeiro

		mineralisation is currently unknown.
Drill Hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes	Location details of the drill holes covered in this announcement are included in the announcement
	If the exclusion of this information is justified on the basis that the information is not Material and that this exclusion does not detract from the understanding of the report. the Competent Person should clearly explain why this is the case.	No exclusion of information has occurred.
Data aggregation methods	<ul> <li>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.</li> </ul>	No sampling details or assay results are referred to in this announcement
Data aggregation methods	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 shown in detail.	No sampling details or assay results are referred to in this announcement
Data aggregation methods	<ul> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul> <li>No sampling details or assay results are referred to in this announcement</li> </ul>
Relationship between mineralization widths and intercepted lengths	<ul> <li>These relationships are particularly important in reporting of Exploration Results.</li> <li>If the geometry of the mineralization with respect to the</li> </ul>	The information reported cannot be used to define mineralisation widths or geometry

**Registered Office** 

F. +61 8 6210 1153

Level 1, 9 Bowman Street South Perth WA

**Brazillian Office** Av Jornalista Riccardo Marinho 360, Sala 113 Barra da Tijuca Rio de Janeiro T. +61 8 6955 2955

Diagrams	drill hole angle is known. its nature should be reported.  If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').  Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but	No direct reference to mineralisation is made in this announcement      Maps showing the drill hole locations are included in this announcement.
Balanced	not limited to plan view of drill hole collar locations and appropriate sectional views.  • Where comprehensive reporting of	The Company believes the
reporting	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.	
Other substantive exploration data	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.	Soil geochemical and airborne magnetic data are included in this announcement
Further Work	<ul> <li>The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large- scale step-out drilling).</li> </ul>	Follow-up drilling in the immediate vicinity of the reported holes is planned should positive assay results be received
	<ul> <li>Diagrams clearly highlighting the areas of possible extensions. including the main geological interpretations and future drilling areas. provided this information is not commercially sensitive.</li> </ul>	<ul> <li>Maps showing the extent of the soil anomalies and the mafic intrusives within the area drilled at Três Estados are presented.</li> </ul>

T. +61 8 6955 2955

F. +61 8 6210 1153