

Area 51 Prospect Grows to 700m Strike Length 40+ Gram-Metre Mineralisation Identified in Prospect Core

HIGHLIGHTS

- New drilling results extend Area 51 mineralisation to ~700m strike length, with broad (50-100m) wide mineralisation
- Diamond drilling confirms higher-grade 'core' located around Sep 2022 drill result of **17m @ 3.2 g/t Au** from 77m (TBK43)
- Confirmation of repeat gold system cut off at sheared western margin supports regional discovery potential
- Key new Area 51 intersections include:

TKB95D: **28.55m @ 1.32 g/t Au** from 91.45m
25m @ 0.78 g/t Au from 125m

TKB106: **6m @ 1.99 g/t Au** from 140m

TKB94D: **20m @ 0.70 g/t Au** from 163m

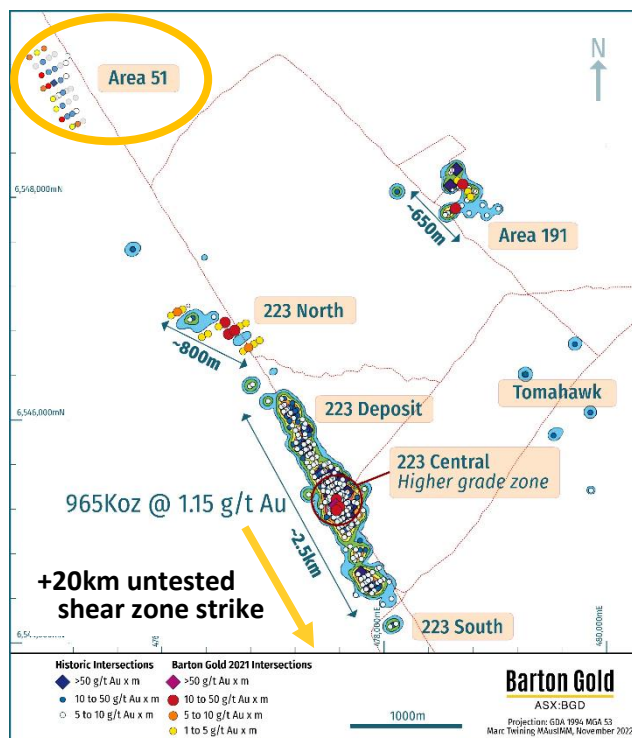


Figure 1 – Tunkillia 223 Deposit & Satellite Zones

Barton Gold Holdings Limited (ASX: **BGD**) (**Barton** or the **Company**) is pleased to report diamond (**DD**) and reverse circulation (**RC**) drilling results from the Tunkillia Gold Project's (**Tunkillia**) Area 51 prospect. During September 2022, Barton confirmed a new ~500m long gold zone at Area 51, located ~3.5km northwest of Tunkillia's cornerstone '223 Deposit' with a current 965koz Au JORC Mineral Resource.¹

During January and February 2023, Barton completed 10 RC holes for a total 2,628 metres, and 3 DD holes for a total 857 metres (including pre-collars) at Area 51 to further test the new gold zone.

Commenting on the latest assay results, Barton MD Alex Scanlon said:

"Indications of another gold system sitting just ~3.5km northwest of the 223 Deposit underscore the potential for significant discoveries in the Yarlbirinda Shear Zone. Despite the 223 Deposit's initial discovery in 1996, historical investigation thereafter has been severely limited by low gold prices and lack of attention.

"We have already confirmed depth extensions along ~800m of the 223 Deposit's strike, a higher-grade core, and 3 new satellite gold zones. We are excited to keep working our way along the next ~20km of untouched shear."

¹ Refer to Barton ASX announcements dated 14 October 2021 and 5 September 2022.

During November 2021, assay results from July 2021 Tunkillia drilling confirmed two new gold zones (223 North and Area 191).² In May 2022 Barton completed further drilling targeting a third prospect (Area 51) located ~3.5km northwest of the 223 Deposit. In September 2022 a new ~500m gold zone was confirmed. **Additional drilling has now mapped out a broad (50 – 100m wide) zone of gold mineralisation along a total ~700m of strike, including a higher grade 'core'.** Key Area 51 drilling results include:

May 2022 Program³

TKB43: **17m @ 3.20 g/t Au** from 77m
45m @ 0.92 g/t Au from 97m
TKB48: **8m @ 0.99 g/t Au** from 140m
10m @ 1.22 g/t Au from 158m

January 2023 Program

TKB95D: **28.55m @ 1.32 g/t Au** from 91.45m
25m @ 0.78 g/t Au from 125m
TKB106: **6m @ 1.99 g/t Au** from 140m
TKB94D: **20m @ 0.70 g/t Au** from 163m

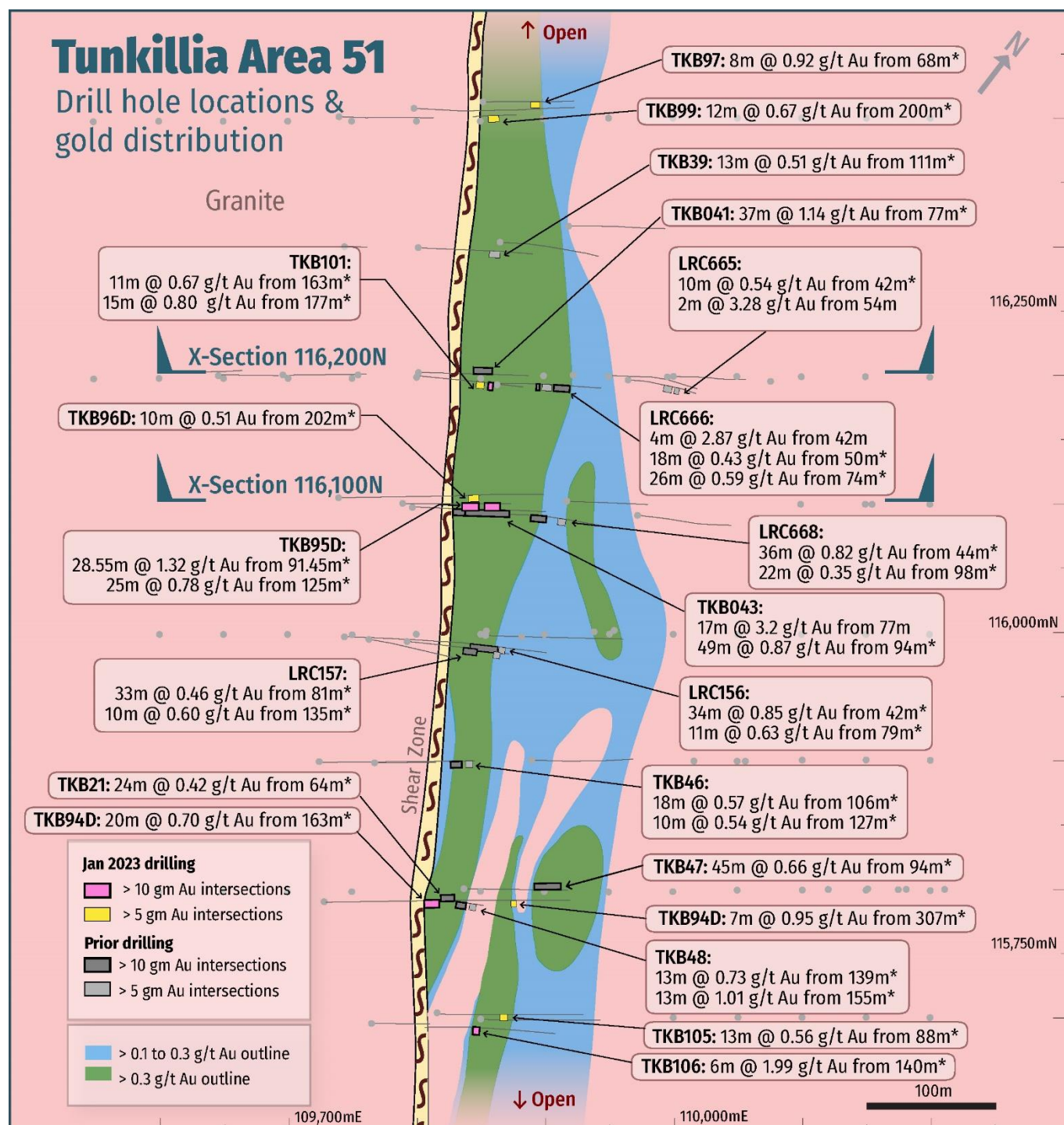


Figure 2 - Area 51 Plan View with Key Intersections

² Refer to Barton ASX announcements dated 3 and 8 November 2021

³ Refer to Barton ASX announcement dated 5 September 2022

Drilling has now confirmed and extended mineralisation at Area 51 to over 700m, with a significant core containing in excess of 40 gram-metres (Figures 3 & 4). Mineralisation remains open to the north and south (Figure 2). Diamond core drilling has confirmed the tenor of mineralisation intersected from earlier RC drilling and provided valuable geological context to aid in interpretation of this newly discovered zone.

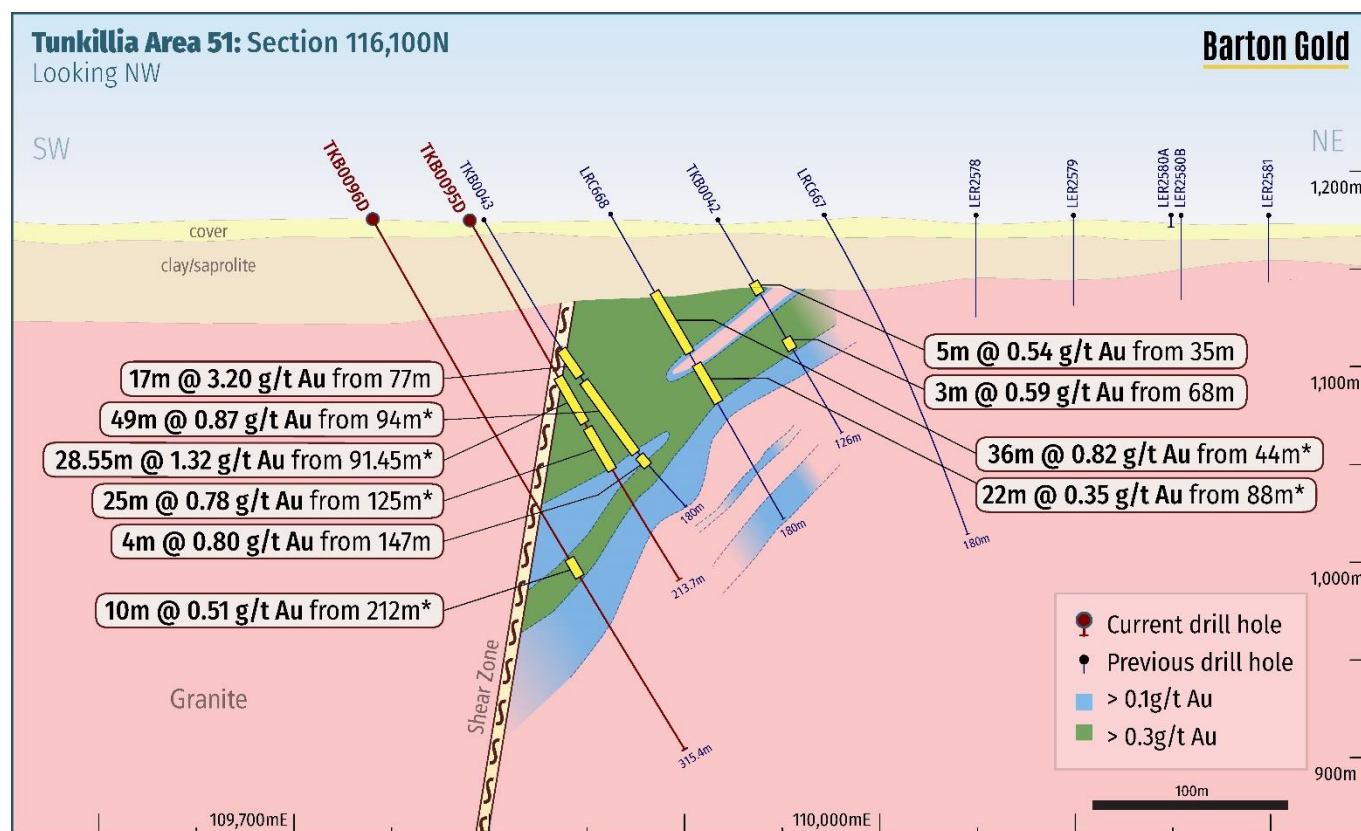


Figure 3 - Area 51 Cross Section 116,100N

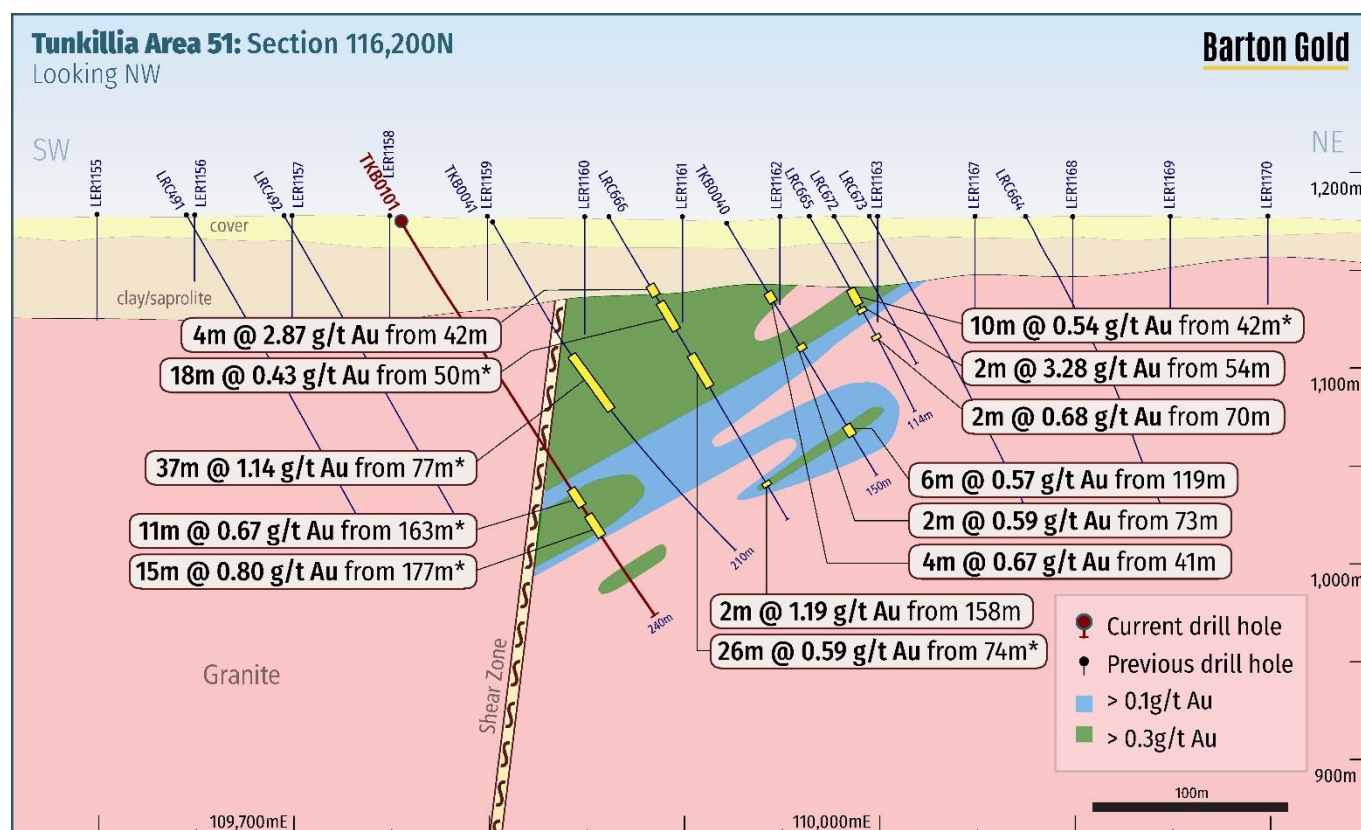


Figure 4 - Area 51 Cross Section 116,200N

Authorised by the Board of Directors of Barton Gold Holdings Limited.

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Competent Persons Statement

The information in this announcement that relates to new Exploration Results for the Tunkillia Gold Project (including drilling, sampling, geophysical surveys and geological interpretation) is based upon, and fairly represents, information and supporting documentation compiled by Mr Marc Twining BSc (Hons). Mr Twining is an employee of Barton Gold Holdings Ltd and is a Member of the Australasian Institute of Mining and Metallurgy Geoscientists (AusIMM Member 112811) and has sufficient experience with the style of mineralisation, the deposit type under consideration and to the activity being undertaken, 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 JORC Code). Mr Twining consents to the inclusion in this announcement of the matters based upon this information in the form and context in which it appears.

About Barton Gold

Barton Gold is an ASX listed Australian gold exploration company with **a total attributable ~1.1Moz Au JORC (2012) Mineral Resources endowment** (28.68Mt @ 1.2 g/t Au), a pipeline of advanced exploration projects and brownfield mines, and **100% ownership of the only regional gold mill** in the central Gawler Craton of South Australia.*

Tarcoola Gold Project

- Existing brownfield open pit mine within trucking distance of Barton's processing plant
- Significant mineral extensions
- Under-explored asset with untapped scale potential

Tunkillia Gold Project

- 965koz Au Mineral Resources (26.1Mt @ 1.15 g/t Au)***
- Host structure extends 7km north and 7km south
- District-scale structures with advanced satellite targets

Infrastructure

- 650ktpa CIP process plant, mine village, workshop, labs and airstrip
- Tarcoola ~40 person lodging to support mine operations
- Tunkillia camp to support dedicated project team



Competent Persons Statement & Previously Reported Information

The information in this announcement that relates to the historic Exploration Results and Mineral Resources as listed in the table below is based on, and fairly represents, information and supporting documentation prepared by the Competent Person whose name appears in the same row, who is an employee of or independent consultant to the Company and is a Member or Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM), Australian Institute of Geoscientists (AIG) or a Recognised Professional Organisation (RPO). Each person named in the table below has sufficient experience which is relevant to the style of mineralisation and types of deposits under consideration and to the activity which he has undertaken to qualify as a Competent Person as defined in the JORC Code 2012.

Activity	Competent Person	Membership	Status
Tarcoola Mineral Resource	Dr Andrew Fowler (Consultant)	AusIMM	Member
Tarcoola Exploration Results (until 15 Nov 2021)	Mr Colin Skidmore (Consultant)	AIG	Member
Tarcoola Exploration Results (after 15 Nov 2021)	Mr Marc Twining (Employee)	AusIMM	Member
Tunkillia Exploration Results (until 15 Nov 2021)	Mr Colin Skidmore (Consultant)	AIG	Member
Tunkillia Exploration Results (after 15 Nov 2021)	Mr Marc Twining (Employee)	AusIMM	Member
Tunkillia Mineral Resource	Dr Andrew Fowler (Consultant)	AusIMM	Member
Challenger Mineral Resource	Mr Dale Sims (Consultant)	AusIMM / AIG	Fellow / Member
Western Gawler Craton JV Mineral Resource	Mr Richard Maddocks (Consultant)	AusIMM	Fellow

The information relating to historic Exploration Results and Mineral Resources in this announcement is extracted from the Company's Prospectus dated 14 May 2021 or as otherwise noted in this announcement, available from the Company's website at www.bartongold.com.au or on the ASX website www.asx.com.au. The Company confirms that it is not aware of any new information or data that materially affects the Exploration Results and Mineral Resource information included in previous announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the Prospectus continue to apply and have not materially changed. The Company confirms that the form and context in which the applicable Competent Persons' findings are presented have not been materially modified from the previous announcements.

Cautionary Statement Regarding Forward-Looking Information

This document may contain forward-looking statements. Forward-looking statements are often, but not always, identified by the use of words such as "seek", "anticipate", "believe", "plan", "expect", "target" and "intend" and statements that an event or result "may", "will", "should", "would", "could", or "might" occur or be achieved and other similar expressions. Forward-looking information is subject to business, legal and economic risks and uncertainties and other factors that could cause actual results to differ materially from those contained in forward-looking statements. Such factors include, among other things, risks relating to property interests, the global economic climate, commodity prices, sovereign and legal risks, and environmental risks. Forward-looking statements are based upon estimates and opinions at the date the statements are made. Barton undertakes no obligation to update these forward-looking statements for events or circumstances that occur subsequent to such dates or to update or keep current any of the information contained herein. Any estimates or projections as to events that may occur in the future (including projections of revenue, expense, net income and performance) are based upon the best judgment of Barton from information available as of the date of this document. There is no guarantee that any of these estimates or projections will be achieved. Actual results will vary from the projections and such variations may be material. Nothing contained herein is, or shall be relied upon as, a promise or representation as to the past or future. Any reliance placed by the reader on this document, or on any forward-looking statement contained in or referred to in this document will be solely at the readers own risk, and readers are cautioned not to place undue reliance on forward-looking statements due to the inherent uncertainty thereof.

* Refer to Barton Prospectus dated 14 May 2021 and ASX announcement 14 October 2021. Total Barton attributable JORC (2012) Mineral Resources include 669koz Au in Indicated (17.7Mt @ 1.2 g/t) and 439koz Au (10.97Mt @ 1.2 g/t) Inferred categories.

JORC Table 1 – Tunkillia Gold Project

Section 1 Sampling Techniques and Data

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.	Sampling during Barton Gold's RC drill programs at Tunkillia was obtained through reverse circulation (RC) methods. Historic RC and diamond drilling methods were also used in drilling campaigns completed since the mid-1990s. Rotary air-blast (RAB) and aircore drilling has also been completed. These holes were used to guide interpretation but were not used for previous grade estimations or modelling of the results reported in the accompanying Announcement.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	The drilling program used a Metzke cone splitter attached to the cyclone. One-metre splits were constrained by chute and butterfly valves to derive a 2-4kg split on the cyclone. Samples above 1m depth were not collected. Diamond core for current drilling has been sawn in half using an automated core saw. Field duplicates were derived from using quarter core for the designated interval Historic diamond core has been sawn in half or quarter using a core saw. For early RC drillholes (1996–1997), the 1 metre samples were collected through a cyclone and collected in poly bags. Samples were initially taken as 4 metre spear composites and then re-assayed at 1 metre intervals if the initial sample returned a grade above a certain threshold. RC drillholes drilled post-1997 were
	Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. "RC 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.	The sample preparation of the one-metre sampling for Barton Gold's RC and diamond drill program was conducted by Bureau Veritas (Adelaide) using method FA1 where the 2-3kg split sample received at the laboratory is weighed, dried, crushed to 10mm, pulverized to 75 micron and split to provide a 40g sample for fire assay analysis. Pre-2003 samples were sent to Analabs for analysis. Post 2003 samples were sent to Intertek Genalysis Laboratory for assay. Gold values were determined by aqua regia digest (B/ETA or B/SAAS) and any values returning >1ppm/0.5ppm were repeated using fire assay (FA25/AAS). If a fire assay was completed then this was selected as the "official" assay. All other elements were determined using multi-acid digest (AT/OES)
Drilling techniques	Drill type (e.g. core, RC, 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.).	The RC drilling program by Barton Gold used a face-sampling 5 ¾" RC drilling techniques undertaken by Bullion Drilling using a Schramm T685WS drilling rig with auxiliary compressor. The diamond drilling program used a UDR1200 drill rig provided by Resolution Drilling, drilling NQ2 (50.7mm diameter) size drill core, using a standard tube configuration. Diamond drill holes were precollared with either RC drilling or rotary mud techniques. Drill core was oriented (bottom of hole) using the Axis Champ orientation system. Historically slimline RC drilling used a face-sampling hammer bit with a diameter of ~90mm. All other RC drillholes were drilled using a "standard size" hammer (ranging from 120mm–136mm). Diamond drillholes have been pre-drilled to fresh rock using a RC pre-collar or cored from surface, with a range of diameters used: NQ, PQ, HQ

Criteria	JORC Code explanation	Commentary
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	<p>During the drilling program drilling recoveries were qualitatively described for each drilled interval in the field database along with an estimation of moisture content. In general recoveries were good, in the order of 30-40kg for each one-metre interval. Water was encountered in some drill holes and wet samples were collected from some intervals, although wet samples comprise <3% of all sampling from this program. No reduced sample weights were recorded with wet intervals and review of results by does not indicate contamination between adjacent samples. Samples submitted to the laboratory were weighed on a dry, as-received basis and reported along with assay results.</p> <p>No quantitative recoveries were recorded from RC drilling. However, consistent sample weights were noted within mineralised zones in previous reports. No quantitative recoveries have been recorded from diamond drilling through mineralised zones. However, previous MRE and geological reports indicate there has been negligible loss through mineralised zones.</p> <p>Recoveries of 90-100% were achieved in geotechnical drilling of the saprolite for geotechnical assessment.</p> <p>Recoveries for diamond drill core were measured and recorded.</p>
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	<p>The RC and diamond drilling was closely monitored by the site geologist to ensure optimal recovery and that samples were considered representative.</p> <p>Historically, HQ triple tube (HQ3) drilling was used for some holes to maximise core recovery. Re-entry holes were not triple-tubed as they were drilled straight into fresh bedrock. Drilling rates were controlled, and short drill runs were often used through the oxide zone to maximise core recovery.</p>
	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.	No relationship between grade and recovery has been identified.
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.	<p>All drilling programs electronically logged a number of parameters direct into a database including: Stratigraphy, lithology, weathering, primary and secondary colour, texture, grainsize, alteration type-style-intensity and mineralisation type-style-percentage.</p> <p>Historically RC chips and diamond core were logged by experienced geologists as a hard copy or into a DataShed database. All diamond core was photographed. Structural measurements were made on core oriented using spear and Ezy-Mark core orientation devices. Core is stored on site and at GSSA's Adelaide Core Library.</p>
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.	Logging is generally qualitative in nature.
	The total length and percentage of the relevant intersections logged.	All diamond core and RC drilling has been geologically logged.

Criteria	JORC Code explanation	Commentary
Subsampling techniques and sample preparation	If core, whether cut or sawn and whether quarter, half or all core taken.	<p>Diamond drill core was sawn in half with one half taken for sampling. Sample lengths were generally 1m although at times were sampled to geological intervals.</p> <p>Selected intervals of whole core were used for geotechnical test work.</p> <p>Selected intervals of sawn half and quarter core and RC chip samples were used for metallurgical test work.</p> <p>Selected intervals of sawn half and quarter core and RC chip samples were used for metallurgical test work.</p> <p>No information is available as to whether the RC chip samples used for metallurgical test work was riffle split or tube sampled.</p>
	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	The RC drilling program used a Metzke cone splitter mounted on the cyclone with one-metre splits constrained by chute and butterfly valves to derive a 2-4kg split on the cyclone. The majority (>97%) of samples were dry and when samples were wet they were recorded in the sampling records
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	<p>The majority of the historical RC samples have been collected at 1 metre intervals using a rifle splitter attached to the drill rig. Periodically between 1996 and 2011, within the strongly weathered portion, samples were collected over 4m intervals. The sample was speared to achieve a representative portion from the interval.</p> <p>For AC drilling, a 1 m sampling interval was applied from surface. All dry samples were caught in a bucket beneath the cyclone and then split through a two-tier riffle splitter to produce a sample of about 2-3 kg. Wet samples were caught in green sample retention bags and then spear sampled, although there were very few wet samples as the drilling depths are too shallow to encounter large volumes of water.</p>
	<i>Quality control procedures adopted for all subsampling stages to maximise representivity of samples.</i>	Subsampling is performed during the preparation stage according to the assay laboratories' internal protocols.
	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.	<p>During the RC drilling program a field duplicate was collected off a second chute on the cyclone splitter at a frequency of 1 for each 16-original sample intervals.</p> <p>Field duplicates for diamond core were obtained by submitting quarter core for the selected intervals (ie half core was retained for all field duplicate intervals)</p> <p>Early drillholes up until 2006 utilised field duplicates and blanks as</p>
	Whether sample sizes are appropriate to the grain size of the material being sampled.	Sample sizes are considered to be appropriate to the grain size of the material being sampled.

Criteria	JORC Code explanation	Commentary
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.	2-4kg splits were sent to Bureau Veritas in Adelaide for preparation and analysis using 40g fire assay techniques for gold. . Bureau Veritas' FA1 method uses a 40g lead collection fire assay with AAS finish to a 0.01 ppm detection limit. . Analytical techniques have varied somewhat over the projects history.
	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.	No geophysical studies were used in this latest drilling program.
	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.	Barton Gold's RC and diamond drilling program included a comprehensive QAQC component with Field Duplicate samples taken at every 25 th sample; Certified Standards (selection of OREAS CRM's considered most appropriate for expected grade and composition) were inserted randomly in sequence for at every 25 th sample submitted; blanks were inserted in sequence at every 50 th sample submitted. Additionally, the laboratories provided their internal QAQC which included check samples, CRM's, blanks and repeats. Analysis of the duplicate samples was reasonable given the majority fell below detection. There was no evidence of cross-contamination in the submitted blank samples. Bureau Veritas' analysis for gold using fire assay performed well with all batches falling within the +/-3SD test of the expected value for the given standards (3 OREAS CRM's). Historically, the amount of sampling and analytical QC data that has been collected has varied over the project's history. Early drillholes up until 2006 utilised field duplicates and blanks as their only QAQC, this effectively accounts for 57% of the holes used in the estimation. Post 2006, QAQC samples were submitted in the form of field duplicates and Certified Reference Standards from Ore Research & Exploration Pty Ltd. Standards were submitted every 20th sample and field duplicates every 50th sample. No material concerns were highlighted in the analysis of QAQC data.

Criteria	JORC Code explanation	Commentary
		<p>Tunkillia Gold used blanks to monitor carry-over contamination and no significant issues were detected. Field duplicates were used to assess sample precision, while CRMs were used to assess analytical accuracy. Some pulps were also sent to an umpire laboratory as a further check on analytical accuracy.</p> <p>Field duplicate results provide some confidence sample precision. The scatter which is observed is understandable given the moderate to high nugget effect evident at Tarcoola. The CRMs reasonably demonstrated the accuracy of the laboratory. Pulp repeats were higher than the original results, which did cause some concern however, given the CRM results the Competent Person had reasonable confidence in the accuracy of the primary laboratory.</p>
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	Alternative company personnel have verified significant intersections.
	The use of twinned holes.	No twinned holes were undertaken on the program reported in this release,.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	<p>All data collected in the reported program including collar details, drilling records, sampling records and geological logs are recorded directly into spreadsheets in the field which includes comprehensive interval validation processes.</p> <p>Gyro downhole surveys and Assay results were provided in digital format.</p> <p>All relevant historical data was entered into a DataShed database where various validation checks were performed. Data was exported into an Access Database.</p>
	Discuss any adjustment to assay data.	No adjustments were made to any assay data in this release
Location of data points	Accuracy and quality of surveys used to locate drillholes (collar and downhole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	<p>All 2023 RC and diamond drill collars were sited using a Garmin hand-held GPS system. The RL was generated from the LiDAR survey collected at the completion of drilling.</p> <p>All Barton RC holes were downhole surveyed using a Reflex EZ-Gyro system which provided measurements at 10m intervals up and down hole.</p> <p>All Barton diamond holes were surveyed using a single-shot gyro tool at 15m intervals during drilling operations.</p> <p>488 out of a total of 556 drillhole collars from drilling prior to 2021 were located using DGPS survey techniques. The raw data for 30% of these have been located and verified. Earlier collars were located by measuring off a local grid system.</p> <p>384 drillholes were surveyed using a down-hole survey instrument. 50 holes were surveyed in the rod and therefore do not have azimuth data. The remaining holes do not have downhole surveys. No AC holes were surveyed</p>

Criteria	JORC Code explanation	Commentary
	Specification of the grid system used.	<p>All site data is reported in Geocentric Datum of Australia 1994 (GDA94) and Vertical Datum in Australian Height Datum (AHD). The map projection is MGA Zone 53. Historic Survey Data has been converted to GDA94.</p> <p>Historically the Tunkillia Project uses the Remington local grid which is rotated 31.37 degrees west of the MGA 94 grid with a local origin of 110,000E and 111,500N</p> <p>Transformation Formula</p> $\text{Local E} = 110000 + ((\text{MGA94_E} - 477614.802) \cos a) + ((\text{MGA94_N} - 6545289.018) \sin a)$ $\text{Local N} = 111500 + ((\text{MGA94_N} - 6545289.018) \cos a) - ((\text{MGA94_E} - 477614.802) \sin a)$ <p>Where angle $a = 31.37$</p> $\text{Local RL} = \text{mRL_MGA} + 1009.232$
	Quality and adequacy of topographic control.	In September 2021 Barton engaged Aerometrex to collect LiDAR and high-resolution ortho-imagery over the entire Tunkillia project area. All datasets are levelled to the LiDAR survey
<i>Data spacing and distribution</i>	Data spacing for reporting of Exploration Results.	<p>Barton's RC and diamond drilling program at the 223 deposit was conducted at variable spacing as dictated by existing drilling and the aims of the program to provide continuity with the existing drill coverage. The spacings are considered appropriate for the reporting of exploration results.</p> <p>Historically drilling has been undertaken at various spacings. The drilling incorporated in the resource database extends from local grid co-ordinates 109,930N to 113,870N and 109,430E to 110,390E. Sections are on a 25 metre spacing from 111,250N to 111,850N outside of this drill sections extend to 50m between 110,600N to 112,600N. Drill sections extend to 100m+ for the remainder of Area 223.</p> <p>On section, drill spacing generally ranges from 20-30m, increasing to 50 metres with the majority of drilling on section and perpendicular to strike. The resource has been drilled to a maximum depth of 360 metres below surface and is not closed off down dip.</p>
	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	Only exploration results are being reported from the completed drilling contained within this release
	Whether sample compositing has been applied.	Sample compositing was not applied.
<i>Orientation of data in relation to geological structure</i>	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	<p>Barton's RC and diamond drill program was orientated to optimally test predicted mineralised structures and stratigraphic positions to provide were possible unbiased samples.</p> <p>Historic holes have been drilled at several orientations, and the orientation of relevant mineralisation-hosting geological structures varies considerably.</p> <p>Drill sections are orientated local grid E-W, perpendicular to the main mineralised lenses.</p> <p>The majority of drillholes used to define the steeply west dipping primary mineralisation are drilled towards the east at - 60 degrees. Drillholes targeting the oxide resource have been drilled vertically. Some of the initial exploration drillholes have been drilled oblique to the strike of mineralisation.</p>

Criteria	JORC Code explanation	Commentary
	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.	The relationship between the drilling orientation and the orientation of key mineralised structures is not considered to have introduced a sampling bias.
<i>Sample security</i>	The measures taken to ensure sample security.	<p>Barton Gold staff oversaw the sampling on the RC drill rig and maintained oversight of sample security whilst onsite during the drilling program. Split samples were inserted into pre-printed calico bags. These tied bags were, in batches of 5, ziplocked into labelled polyweave bags which were inserted into ziplocked Bulka-bags. The bulka bags were strapped onto pallets and loaded by a Barton Gold representative on to a semitrailer for transport to the laboratories in Adelaide and Perth. The trailers were not unloaded whilst in transit.</p> <p>Diamond drill core was transported from the project site to Adelaide and cut by experienced and reputable service providers. The core cutting agents undertook sampling of the drill core and subsequent delivery of samples to the laboratory. Barton Gold staff undertook regular visits during core cutting and sampling processes to verify the integrity of processes being undertaken</p> <p>Barton does not have detailed information in regard to sample security measures taken by previous owners of the Tunkillia project. However, Barton understands that these procedures have been in accordance with commonly adopted standard industry practices</p>
<i>Audits or reviews</i>	The results of any audits or reviews of sampling techniques and data.	An internal peer review of the exploration data processes has been completed by Barton Gold which has included a detailed review of the assay, survey and QAQC data.

Section 2 Reporting of Exploration Results

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.	<p>The Tunkillia Project area is located 530 km north-west of Adelaide in South Australia's Gawler Craton. It is 100% owned by Tunkillia 2 Pty Ltd which is a wholly owned subsidiary of Barton Gold Holdings Limited.</p> <p>The project comprises two exploration licences that were grouped into an Amalgamated Expenditure Agreement on 4th October 2012 and Joint Venture Reporting on 21st January 2013.</p> <p>Most of the South Australian tenements held by WPG Resources were bought by current owner Barton Gold Pty Ltd on 1st November 2019.</p> <p>The three current tenements comprise EL6499, EL5790 and EL5901 which have a combined area of 1,362 km².</p> <p>The Tunkillia Project was under three overlapping Native Title claims which are now grouped into a single organisation, the Gawler Ranges Aboriginal Corporation (GRAC) that represents all three groups.</p> <p>Barton Gold's negotiations with GRAC secured a signed Native Title Mining Agreement for Exploration for EL's 5790, 5901 and 6499 on 2nd February 2021.</p> <p>Barton's Exploration Licences 5901, 5790 and 6499 are subject to South Australian State royalties and entitled to a reduced 'new mine' State royalty rate of 2% of the value of minerals recovered until 30 June 2026, and are also subject to total 2.5% private royalties (gross product).</p> <p>There are no joint ventures over the Tunkillia Project tenure.</p>
	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.	There are no known impediments to obtaining future licences.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	<p>Exploration in the Tunkillia area commenced in 1996 with a regional geochemical survey by Helix Resources who established the local Remington grid. Infill sampling delineated the Tunkillia Prospect as a 20km² geochemical gold in calcrete anomaly. Subsequent RAB drilling led to the discovery of the Area 223 deposit in late 1996. RC drilling in early 1997 further enhanced the discovery.</p> <p>A joint venture was formed with Acacia who took over management of the project with subsequent exploration carried out as the Gawler Craton Joint Venture. The JV later involved AngloGold Australasia Ltd following its takeover of Acacia.</p> <p>In June 2003, Helix finalised the acquisition of AngloGold's 49% interest and returned 100% of the project to Helix.</p> <p>An independent resource assessment by Snowden Mining Industry Consultants prompted an extensive 12,000m RC program to infill the Area 223 resource. A re-interpretation of the aeromagnetic data identified new exploration targets away from the known resource outlining mineralisation at Tomahawk and Areas 191.</p> <p>In April-June 2004 Helix completed an 8000m RC drilling program testing areas of the Area 223 North and South mineralisation and exploration concepts at Area 191 and the central part of the shear zone.</p>

Criteria	JORC Code explanation	Commentary
		<p>Studies were completed by Resource Evaluations Pty Ltd in June 2004 looking at resource estimates and optimisation studies based on the available drilling.</p> <p>A Joint Venture commenced between Helix and Minotaur Exploration Ltd in April 2005 where Minotaur assumed operation and management of the project. Minotaur undertook an intense exploration effort in the immediate surrounds of the Area 223 resource, and regionally.</p> <p>In 2007, Minotaur re-appraised the Area 223 resource using recent drilling and separated distinct oxide and sulphide domains.</p> <p>In January 2012, Mungana acquired the 55% interest in the Tunkillia Gold Project via the acquisition of Minotaur's wholly owned subsidiary Minotaur Ventures Pty Ltd.</p> <p>WPG Resources acquired 70% of the project in May 2014 through the acquisition of the Tarcoola and Tunkillia projects from Mungana Goldmines Ltd. In Nov 2014 WPG moved to 100% ownership of the Tunkillia gold project by acquiring the 30% owned by Helix Resources.</p> <p>WPG Resources completed work on calcrete samples over a number of targets along the Tunkillia "Line of Lode". Drilling of selected Area 51 and Tomahawk Extended areas included ten RC holes for 1,641m. No further work was undertaken by WPG Resources until the project was purchased by Barton Gold in late 2019.</p>
Geology	Deposit type, geological setting and style of mineralisation.	<p>The Tunkillia Project extends over a large portion of the Central Gawler Craton of South Australia which is bound to the east by the Gawler Range Volcanic Province.</p> <p>The central portion of the Gawler Craton consists of a variety of geological units and is structurally complex. Archaean metamorphic rocks and greenstone-belt units are distributed along WSW–ENE trends. During the Palaeoproterozoic, granitoids including the Tunkillia Suite were emplaced possibly with associated deformation. During these deformation episodes, major shear zones developed, including the east-trending Yerda and Oolabinnia Shear Zones and north-trending Yarlbirinda Shear Zone.</p> <p>The Yarlbirinda Shear Zone and Yerda Shear Zone are up to several kilometres wide with ductile shearing and deformation probably occurring before ~1600 Ma and before Mesoproterozoic anorogenic magmatism.</p> <p>During the Mesoproterozoic, widespread anorogenic magmatism across the central portion of the craton resulted the Gawler Range Volcanics, Hiltaba Suite granite (1595-1575 Ma) and emplacement of minor gabbroic plugs.</p> <p>Development of Cu-Au +/- U mineralisation at Olympic Dam and Prominent Hill and gold dominant mineralisation at Tunkillia and Tarcoola occurred during this period.</p> <p>Typical lithologies encountered in the Area 223 deposit from west to east include variably sheared chlorite-biotite-rich augen gneiss (Tunkillia Augen Gneiss) grading into a highly chloritised and mylonitised phyllitic shear. The phyllitic shear zone grades into a weakly gneissic unit to the east which is variably altered by sericite to form the central alteration zone. This unit has a sheared contact with the footwall granite.</p>

Criteria	JORC Code explanation	Commentary
		<p>The host rocks have been intruded by at least two later episodes of dyke emplacement. The mafic dyke appears to form the footwall to the main mineralisation at Area 223.</p> <p>Clear relationships between dyke emplacement and the mineralisation remain unclear. The dykes appear to cross-cut mineralisation at Area 223 and are unmineralised in fresh rock. But in the weathered zone gold occurs within the weathered dyke and also to east of this apparent 'bounding' lithology.</p> <p>The main mineralisation appears to occur within en-echelon sets of quartz-sulphide tension veins predominately bounded by duplex shears, with brittle fractures extending into the hanging wall.</p> <p>The mineralised sequence at Area 223 has undergone extensive weathering which formed a leached kaolinitic profile capped by a silcrete layer. No palaeochannels are observed at Area 223 although they do occur elsewhere in the Tunkillia area.</p> <p>At 50-60 metres depth near the base of the weathering profile a zone of supergene mineralisation is developed which shows some enrichment compared with the underlying primary lodes. Gold appears to have been laterally dispersed over a distance of tens of metres within the oxide zone.</p> <p>The Area51 prospect is located only strike from the 223 Deposit and is characterised by a very similar geological setting to the 223 Deposit. The controls that relate to gold mineralisation and the processes by which gold mineralisation was formed are considered at this preliminary stage to be very similar to the 223 Deposit</p>
Drillhole information	<p>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drillholes:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Easting and northing of the drillhole collar <input type="checkbox"/> Elevation or RL (Reduced Level – Elevation above sea level in metres) of the drillhole collar <input type="checkbox"/> Dip and azimuth of the hole <input type="checkbox"/> Downhole length and interception depth <input type="checkbox"/> Hole length. 	<p>A tabulation of the drilling program including the details of historic holes mentioned in this announcement are presented in Tables 2 - 5.</p>

Data aggregation methods	<p>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.</p> <p>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.</p> <p>The assumptions used for any reporting of metal equivalent values should be clearly stated.</p>	<p>Reported intersections used the following criteria:</p> <ul style="list-style-type: none"> Reported intervals have been determined by applying a 0.5g/t Au cut-off and allowing for a maximum of two consecutive intervals of dilution provided the intervals are >0.1g/t Au. A minimum interval threshold of 1 gram-metres (ie the multiple of the interval in metres and the weighted average grade) is also applied when using this protocol. In some specific instances reporting of intervals by applying a 0.3g/t Au cut-off (and allowing for a maximum of two consecutive intervals of dilution provided the intervals are >0.1g/t Au) is considered appropriate to convey the significant width of mineralisation. A minimum interval threshold of 5 gram-metres (ie the multiple of the interval in metres and the weighted average grade) is also applied when using the 0.3g/t Au cut-off grade. Reported intervals where this protocol has been applied are clearly highlighted in the body of the text, associated diagrams and tables within this release. No high-grade cut-offs were applied Results for quarter-core field duplicates from diamond drilling were averaged across the pair of samples to provide a result consistent with routine half-core sampling. No metal equivalents were calculated
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Criteria	JORC Code explanation	Commentary
Relationship between mineralisation widths and intercept lengths	<p>These relationships are particularly important in the reporting of Exploration Results.</p> <p>If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported.</p> <p>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. "downhole length, true width not known").</p>	Drillholes have been designed to intersect the mineralisation zone as perpendicular as possible. Reported intercepts are downhole length and true width can generally be estimated because the dip of the mineralisation is known.
Diagrams	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 drillhole collar locations and appropriate sectional views.	See Figures included the body of this Announcement. Relevant commentary relating to diagrams is discussed under the heading of Balanced Reporting.

Balanced reporting	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.	Balanced reporting of Exploration Results is presented. Mineralised halos presented in diagrams within the announcement are provided to indicatively represent the extensive halo of gold mineralization that characterizes this mineral system. The presentation of these mineralized halos is intended as being an indicative guide only, is inclusive of variable amounts of internal dilution and is not intended to portray continuous mineralization above the minimum threshold grade. It is the view of the Competent Person that the presentation of these mineralized halos in this manner is a fair and reasonable representation of the style of mineralization observed.
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.	Extensive geological, geophysical, geochemical, geotechnical and metallurgical datasets are available for the Tunkillia project area. Other datasets including gravity that was sourced from open-file datasets (SA DEM). Historical data acquired by previous owners included detailed aeromagnetic, TEMPEST airborne EM and in-fill gravity surveys completed over parts of the tenement area and mostly focussed on the Yarlbrinda Shear Zone. Other data includes gradient array IP, biogeochemical sampling, CHIM/MMI geochemical sampling and spectral scanning of reverse circulation drill chips.
Further work	The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).	The mineralisation at Area 51 remains open along strike to both the north and south. . Barton Gold is planning further drilling work which will be focused on testing for strike extensions and to confirm grade and geological continuity within the current prospect area. While geophysical coverage already exists, additional geophysical exploration techniques may be undertaken as the project continues and may include magnetic surveys and ground-based gravity.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Diagrams have been included in the body of this Announcement.

Table 2: Drillhole Collar Details for Barton Gold Tunkillia January-February 2023 RC & DD Drilling Program

Hole ID	Easting	Northing	RL	DIP	TAZ	Total Depth (EOH)	Type	Completion	Target
TKB0094D	475149	6548811	166	-60	58	327.8	DD	11/1/2023	Area 51
TKB0095D	475040	6549107	166	-60	58	213.7	DD	15/1/2023	Area 51
TKB0096D	474995	6549085	166	-60	58	315.4	DD	20/1/2023	Area 51
TKB0097	474930	6549406	164	-60	58	132	RC	29/1/2021	Area 51
TKB0098	474887	6549374	164	-60	58	198	RC	31/1/2023	Area 51
TKB0099	474841	6549338	164	-60	58	240	RC	2/2/2023	Area 51
TKB0100	474898	6549254	165	-60	58	258	RC	3/2/2023	Area 51
TKB0101	474959	6549174	166	-60	58	240	RC	4/2/2023	Area 51
TKB0102	475055	6548995	167	-60	58	240	RC	6/2/2023	Area 51
TKB0103	475089	6548903	167	-60	58	216	RC	7/2/2023	Area 51
TKB0104	475300	6548797	170	-60	58	162	RC	8/2/2023	Area 51
TKB0105	475269	6548783	170	-60	58	192	RC	10/2/2023	Area 51
TKB0106	475229	6548750	170	-60	58	240	RC	11/2/2023	Area 51

Table 3: Significant Intersections for Barton Gold January-February 2023 Tunkillia RC & Diamond Drilling Program Mentioned in this Announcement² (Intervals >10gram-metres highlighted in bold font)

Hole ID	From	To	Metres ¹	Au (g/t)	Comments &/or including
TKB0094D	163	183	20	0.70*	
TKB0094D	210	213	3	0.59	
TKB0094D	217	221	4	0.50	
TKB0094D	273	274	1	1.11	
TKB0094D	284	287	3	0.76	
TKB0094D	307	314	7	0.95*	Including 1m @ 1.87 g/t Au [311m]
TKB0095D	91.45	120	28.55	1.32*	
TKB0095D	125	150	25	0.78*	
TKB0096D	202	212	10	0.51*	
TKB0097	60	62	2	0.81	
TKB0097	68	76	8	0.92*	Including 1m @ 2.08 g/t Au [68m]
TKB0097	92	94	2	1.79	Including 1m @ 2.89 g/t Au [92m]
TKB0098	94	96	2	1.77	
TKB0098	128	130	2	0.83	
TKB0099	200	212	12	0.67*	Including 1m @ 2.28 g/t Au [201m]
TKB0101	163	174	11	0.67*	
TKB0101	177	192	15	0.80*	
TKB0102	202	204	2	0.64	
TKB0103	198	204	6	0.55	
TKB0105	88	101	13	0.56*	
TKB0106	133	136	3	0.79	
TKB0106	140	146	6	1.99*	Including 1m @ 9.00 g/t Au [141m]
TKB0106	154	155	1	2.00	
TKB0106	165	170	5	0.61	

¹ Note - Not true widths.² Note – Calculated applying a 0.5g/t Au cut-off and allowing up to 2m internal dilution provided dilution is >0.1g/t Au.

* Note – Calculated applying a 0.3g/t Au cut-off and allowing up to 2m internal dilution provided dilution is >0.1g/t Au. Refer to Table 1 'Data Aggregation Methods'

Table 4: Drillhole Collar Details for Historical Drill Holes Mentioned in this Announcement

Hole ID	Easting	Northing	RL	DIP	TAZ	Total Depth (EOH)	Type	Completion	Target
LRC156	475123	6549033	167	-60	59	162	RC	14/6/1997	Area 51
LRC157	475098	6549017	167	-60	59	162	RC	16/6/1997	Area 51
LRC665	475139	6549280	168	-60	61	114	RC	30/3/2016	Area 51
LRC666	475053	6549224	168	-60	59	180	RC	31/3/2016	Area 51
LRC668	475200	6549194	169	-60	60	180	RC	7/4/2016	Area 51
TKB0021	475206	6548851	169	-60	60	98	RC	31/08/2021	Area 51
TKB0039	474947	6549283	165	-60	58	180	RC	21/05/2022	Area 51
TKB0040	475101	6549261	165	-60	58	150	RC	22/05/2022	Area 51
TKB0041	474997	6549201	165	-60	58	210	RC	23/05/2022	Area 51
TKB0042	475148	6549175	166	-60	58	126	RC	24/05/2022	Area 51
TKB0043	475048	6549109	166	-60	58	180	RC	25/05/2022	Area 51
TKB0046	475126	6548924	167	-60	58	150	RC	29/05/2022	Area 51
TKB0047	475236	6548876	169	-60	58	156	RC	30/05/2022	Area 51
TKB0048	475173	6548832	169	-60	58	168	RC	31/05/2022	Area 51

Table 5: Significant Intersections for Historical Drilling Mentioned in this Announcement² (Intervals >10gram-metres highlighted in bold font)

Hole ID	From	To	Metres ¹	Au (g/t)	Comments &/or including
LRC156	42	76	34	0.85	
LRC156	79	90	11	0.63*	
LRC157	81	114	33	0.46*	
LRC157	135	145	10	0.60*	
LRC665	42	52	10	0.54*	
LRC665	54	56	2	3.28	
LRC665	70	72	2	0.68	
LRC666	42	46	4	2.87	
LRC666	50	68	18	0.43*	
LRC666	74	100	26	0.59*	
LRC666	158	160	2	1.19	
LRC668	44	80	36	0.82*	
LRC668	88	110	22	0.35*	
TKB0021	64	88	24	0.42*	
TKB0039	111	124	13	0.51*	
TKB0040	41	45	4	0.67	
TKB0040	73	75	2	0.59	
TKB0040	119	125	6	0.57	
TKB0041	77	114	37	1.14*	
TKB0042	35	40	5	0.54	
TKB0042	68	71	3	0.59	
TKB0043	77	94	17	3.20	
TKB0043	94	143	49	0.87*	
TKB0043	147	151	4	0.80	
TKB0046	106	124	18	0.57*	
TKB0046	127	137	10	0.54*	
TKB0047	94	139	45	0.66*	
TKB0048	139	152	13	0.73*	
TKB0048	155	168	13	1.01*	

¹ Note - Not true widths.

² Note – Calculated applying a 0.5g/t Au cut-off and allowing up to 2m internal dilution provided dilution is >0.1g/t Au.

* Note – Calculated applying a 0.3g/t Au cut-off and allowing up to 2m internal dilution provided dilution is >0.1g/t Au. Refer to Table 1 ‘Data Aggregation Methods’