# ASX RELEASE

## **Early RC Drill Results from Yarabrook Hill**

#### **SUMMARY**

- First 3 RC drill results received from 11 holes, 3,000m phase of drilling at Yarabrook Hill
- Significance of drill results are still to be thoroughly understood, pending receipt of further drill results
  - YARC0001 returned 263m @ 0.24g/t 3E (Pd+Pt+Au), 0.11% Ni & 0.13% Cu, including a peak result of 2m @ 2.13g/t 3E, 0.33% Ni and 1.04% Cu from 46m
- Remaining results (8 holes) expected over the coming weeks
- RC drilling expected to recommence in late October with strong new targets added to the program
  - Northwest and Eastern soil anomalies
  - XC-22 Airborne EM anomaly

Caspin Resources Limited (ASX: CPN) ("Caspin" or "the Company") is pleased to provide an update on exploration activities, including the first results from RC drilling completed in August at the Company's Yarawindah Brook PGE-Ni-Cu Project in Western Australia. These results are from the first 3 holes, with assays from a further 8 holes still to be returned. The Company looks forward to providing more detailed analysis and interpretation once more results have been received.

#### Background

Following a query from the ASX relating to the recent price and volume increases in trading of Caspin shares, out of an abundance of caution the Board is hereby announcing an update on the drilling results from Yarabrook Hill received to date. It should be noted that the Company will require additional drill results (the timing of receipt for all outstanding assays by the Company is uncertain), to complete a thorough interpretation of these drill results. The exploration results in this announcement should be viewed in this context.

Caspin's Chief Executive Officer, Mr Greg Miles, commented "The drill program was designed to step out from earlier diamond drilling and test what was previously interpreted as the limits of the Yarabrook Intrusion. As previously announced to ASX, we now know from our gravity survey that the intrusion is larger than previously thought and this program, whilst potentially providing a vector towards higher grade mineralisation, will be insufficient to ultimately test the potential of the prospect.

"What we also know is that the results are broadly consistent with our expectations from geological logging. These observations have already been used to develop the geological model of the intrusion, which is guiding our next phase of drilling. The Company has developed several new targets to be tested when drilling recommences later this month and will provide further updates on timing shortly.

"This is an exciting time for our Company. We have further results to come, and an RC and diamond program to be completed before the end of the year. We will have a busy end to 2021 with plenty of opportunity for success.

I'd like to thank our loyal shareholders for their continued support and welcome our new shareholders to the next chapter of the Caspin Story."

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#### First RC Drilling Results Demonstrate Mineralisation Potential

As originally reported to the ASX on 26 July 2021, an RC drilling program totalling 5000m was designed to primarily test: a) the eastern soil anomaly and b) the extents of the known intrusion (as interpreted at that time). However due to inaccessible ground conditions, the RC drilling program was paused after 3000m when the remaining planned drill holes could not be drilled. The completed drilling consisted of an initial 11 drill holes (YARC0001-YARC0011) which are now considered Phase 1 of the original 5000m RC program. It is important to note, that the planned drilling over the main part of the Eastern Soil anomaly was not completed in this initial Phase 1 of drilling as those planned drill holes could not be accessed at that time.

Caspin has to date received assays for three of the drillholes: YARC0001 – YARC0003. These drill holes were originally designed to test what was originally interpreted to be the prospective eastern margin of the intrusion, testing the same prospective horizon as drilled with recent holes YAD0017 and YAD0018 (refer to Caspin's ASX announcement of 5 July 2021). Subsequent gravity survey results announced to the ASX showed that the intrusion extended further to the east and these drill holes would be testing the ultramafic part of the intrusion.

Both YARC0001 and YARC0002 intersected the interpreted internal stratigraphy of the Yarabrook Hill intrusion with the drill holes starting in a peridotite unit and then drilling through into a more pyroxenitic gabbro and finishing in a more plagioclase rich, low-Cr gabbro.

Both drill holes intersected broad anomalous Ni-Cu-PGE zones hosted in peridotites and pyroxenites, including YARC0001 intersecting **263m at 0.24g/t 3E (Pd+Pt+Au), 0.11% Ni & 0.13% Cu** and YARC0002 intersecting **180m @ 0.11g/t 3E, 0.1% Ni and 0.10% Cu**, providing a sense for the scale of the system within the Yarabrook Hill intrusion. YARC0001 returned a peak result of **2m @ 1.27g/t Pd, 0.25g/t Pt, 0.61g/t Au, 0.33% Ni and 1.04% Cu** from 46m.

YARC0003 intersected roughly 240m of a dolerite dyke with the drill hole finishing in a gabbro. The drillhole is interpreted to have drilled sub-parallel to the dolerite dyke (which explains the thickness of the dyke intersected). The dyke is barren and hence no significant anomalism was intersected.

Interpretation of the results is continuing.

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HOLE ID	East	North	RL	Dip	Azi	EOH (m)	From (m)	Width (m)	Pd g/t	Pt g/t	Au g/t	Ni %	Cu %
YARC0001	430254	6559580	300	-60	240	305	44	11	0.38	0.11	0.17	0.20	0.27
						Incl.	44	1	0.22	0.04	1.46	0.13	0.12
						And	46	2	1.27	0.25	0.61	0.33	1.04
							79	16	0.22	0.09	0.02	0.16	0.17
							109	69	0.30	0.15	0.04	0.15	0.15
						Incl.	138	5	0.49	0.21	0.05	0.17	0.18
						And	150	12	0.56	0.26	0.08	0.18	0.20
YARC0002	430170	6559761	300	-60	240	275	73	22	0.23	0.14	0.04	0.09	0.16
						Incl.	76	6	0.44	0.29	0.04	0.12	0.31
						And	81	1	0.60	0.94	0.03	0.31	0.36
							64	6	0.23	0.09	0.04	0.02	0.16
							124	1	0.10	0.05	0.01	0.30	0.42
YARC0003	430093	6560064	300	-60	240	275			No Sign	ificant Ir	ntercept		

#### **TABLE 1: Significant Drill Intercepts – Yarabrook Hill Prospect**



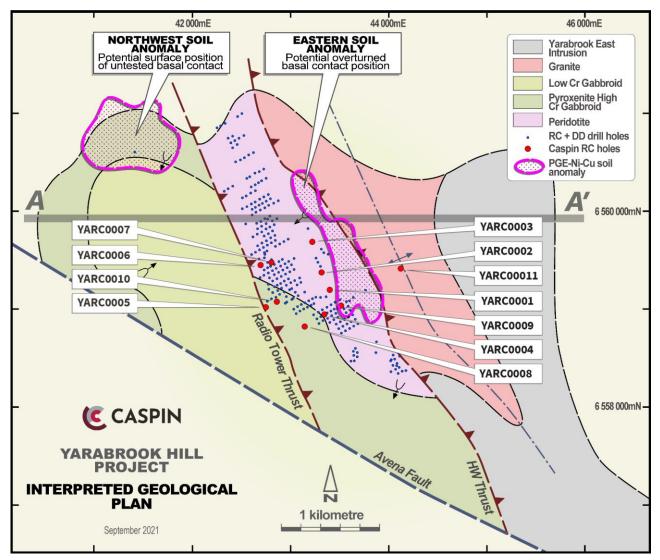


Figure 1. Interpreted geology of Yarabrook Hill with previous drilling and RC holes from current RC campaign.

#### **Recommencement of Drilling**

The Company is looking forward to recommencing RC drilling within the coming weeks, with the program set to extend beyond the remaining 2,000m of the original planned program.

Only a small fraction of the entire intrusion has been drilled by Caspin or its predecessors. Most of the previous drilling has focussed only on where mineralisation comes to surface, but there remains a large portion of the prospective basal sequence that is potentially obscured by overlying sequences and present at depth where it is unrecognised and remains to be tested.

The program will also be testing the Northwest soil geochemical anomaly which occurs in an embayment of the intrusion and a potential near-surface expression of the basal contact. The Company will also be testing the XC-22 Airborne Electromagnetic (AEM) anomaly, which is coincident with a magnetic high and gravity low. Further details of these targets can be found in Caspin's ASX release of 21 September 2021.

The upcoming diamond program, part funded by the WA Government Exploration Incentive Scheme, is also expected to commence towards the end of October. This rig will be drilling a deep diamond hole through the entire intrusion to assist geological interpretations and potentially identify prospective basal sequences.



This announcement is authorised for release by the Board of Caspin Resources Limited.

-ENDS-

For further details, please contact:

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#### **Competent Persons Statement**

The information in this report that relates to Exploration Results is based on information compiled or reviewed by Mr Greg Miles, a Competent Person who is an employee of the company. Mr Miles is a Member of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, 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 Miles consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the Exploration Results information included in this report from previous Company announcements, including Exploration Results extracted from the Company's Prospectus announced to the ASX on 23 November 2020 and the Company's subsequent ASX announcements of 30 March 2021, 28 April 2021, 16 June 2021, 5 July 2021 and 19 August 2021.

#### **ABOUT CASPIN**

Caspin Resources Limited (ASX Code: **CPN**) is a new mineral exploration company based in Perth, Western Australia. Caspin has extensive skills and experience in early-stage exploration and development. The Company is actively exploring the Yarawindah Brook Project in Australia's exciting new PGE-Ni-Cu West Yilgarn province and the Mount Squires Project in the West Musgrave region, one of Australia's last mineral exploration frontiers.

At the Yarawindah Brook Project, Caspin is advancing exploration on multiple fronts using soil geochemistry and geophysics in search of new PGE-Ni-Cu sulphide deposits. Caspin has recently confirmed primary PGE mineralisation in its maiden drill program.

At the Mount Squires Project, Caspin has identified a 50km structural corridor with significant gold mineralisation. The Company will conduct further soil sampling and reconnaissance drilling to identify new targets along strike from the Handpump Prospect. Caspin will concurrently continue to evaluate the potential for Ni-Cu mineralisation along strike from the One Tree Hill Prospect and Nebo-Babel Deposits.

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Alice Springs

**MOUNT SQUIRES** 

YARAWINDAH BROOK

PROIECT

PERTH

PROJECT



### **ANNEXURE 1:**

The following Tables are provided to ensure compliance with the JORC Code (2012) edition requirements for the reporting of the Exploration Results at the Yarawindah Brook Project.

Criteria	JORC Code explanation	Commentary
Sampling techniques	Nature and quality of sampling (eg 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.	RC drilling produced a 1m bulk where a representative sample (nominally a 12.5% split) was collected using a cone splitter. Average sample submitted for analysis was between 2-3 kg while overall sample weights averaged closer to 7-8 kg.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	Sampling techniques used are deemed appropriate for exploration purposes for this style of deposit and mineralisation.
	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 (eg '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 (eg submarine nodules) may warrant disclosure of detailed information.	
Drilling techniques	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	Caspin drilling consisted of RC with face sampling bit (140 to 130 mm in diameter) ensuring minimal contamination during sample extraction.
	type, whether core is oriented and if so, by what method, etc).	Drill hole locations were surveyed by handheld GPS units which have an accuracy of ±5m.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	RC recoveries are visually logged for every hole and recorded in the database. Overall recoveries are >95% and there has been no significant sample recovery problems.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	Samples are checked for recovery and any issues immediately rectified with the drilling contractor. Drilling techniques to ensure adequate RC sample recovery and quality included the use of "booster" air pressure. Air pressure used for RC drilling was 700-800psi.
		Logging of all samples followed established company procedures which included recording of qualitative fields to allow discernment of sample quality. This included (but was not limited to) recording: sample condition (wet, dry, moist), sample recovery (poor, moderate, good), sample method (RC: scoop, split; DD core: half, quarter, whole).

#### SECTION 1: Sampling Techniques and Data (Criteria in this section apply to all succeeding sections)

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Criteria	JORC Code explanation	Commentary
	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 sample bias has been observed.
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.	Logging at the Yarawindah Brook Project records lithology, mineralogy, mineralisation, weathering, colour and other relevant features of the core. Logging of core is both qualitative (e.g. colour) and quantitative (e.g. mineral
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	percentages). Full detailed logging will be completed with assays in hand.
		All logging information is uploaded into an Access Database which ensures validation criteria are met upon upload.
	The total length and percentage of the relevant intersections logged.	All drill holes are logged as they are drilled and subsequently logged in more detail following assay return.
Sub-sampling techniques and sample	If core, whether cut or sawn and whether quarter, half or all core taken.	Not applicable.
preparation	<i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i>	RC drilling was sampled at 1 m intervals by a fixed cone splitter with a representative sample (nominally 12.5% of the total sample) taken. The representative sample was submitted to the laboratory, and the second sample retained as a duplicate sample in case a further sample was required.
		All samples are dry.
		Cone splitting of RC drill samples occurred regardless of the sample condition.
		RC drill sample weights range from 0.6kg to 17kg, but typically average 7-8kg.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	All Caspin samples were submitted to Bureau Veritas for multi-element analysis. Sample preparation involving oven drying, followed by primary crushing of the whole sample where required, secondary crushing, riffle splitting to obtain a subsample for pulverisation (total prep) using Essa LM5 grinding mills to a grind size of 90% passing 75 micron.
	Quality control procedures adopted for all sub- sampling stages to maximise representivity of samples.	Caspin QC procedures involve the use of certified reference material (CRM) as assay standards and blanks along with field duplicates. The insertion rate of these will average 1:25.
	Measures taken to ensure that the sampling is representative of the in situ material collected,	Field duplicates were taken on 1m composites directly from the cone splitter.
	including for instance results for field duplicate/second-half sampling.	Review of duplicate results indicates that there is strong correlation between the primary and duplicate assay values, implying that the selected sample size is reasonable for this style of mineralisation.
	Whether sample sizes are appropriate to the grain size	Sample sizes are considered appropriate for the



Criteria	JORC Code explanation	Commentary
	of the material being sampled.	rock type, style of mineralisation (massive, stringer and disseminated sulphides), the thickness and consistency of the intersections, the sampling methodology and percent value assay ranges for the primary elements within the Yarawindah Brook Project.
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.	The analytical techniques used fused bead XRF for base metals and all other major and trace elements of interest. Au, Pt and Pd were determined by fire assay (~40 gram) with ICP/MS finish.
	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.	Portable XRF assay results have not been reported.
	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	Sample preparation for fineness checks were carried out by the laboratory as part of their internal procedures to ensure the grind size of >90% passing 75 micron was being attained. Laboratory QAQC involves the use of internal lab standards using certified reference material (CRM), blanks, splits and replicates as part of their in-house procedures. Certified reference materials, having a good range of values, are inserted blindly and randomly. Repeat and duplicate analyses returned acceptable results.
		No umpire laboratory checks have been undertaken by Caspin.
		No detailed assessment of historical QA/QC data has been undertaken to date.
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	RC samples and corresponding assay results have been verified by multiple Caspin geologists with further reviews and interpretation continuing.
	The use of twinned holes.	None of the reported Caspin drill holes have been twinned.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	Primary data for the Yarawindah Brook Project was collected in the field using a set of standard excel spreadsheets on laptop computers using lookup codes. The information was sent to Geobase Australia for validation and compilation into an Access SQL database server.
	Discuss any adjustment to assay data.	No assay data has been adjusted.
Location of data points	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	Reported drill holes were located with a Garmin hand-held GPS with an accuracy of ±3m. This is considered appropriate for exploration drill holes.
	estimation.	Downhole surveys were completed by the drilling contractors with the data provided to Caspin Resources.
	Specification of the grid system used.	The grid system for the Yarawindah Brook



Criteria	JORC Code explanation	Commentary
		Project is GDA94 MGA Zone 50.
	Quality and adequacy of topographic control.	The tenement package exhibits subdued relief with undulating hills and topographic representation is sufficiently controlled.
Data spacing and distribution	Data spacing for reporting of Exploration Results.	The holes drilled were for exploration purposes and have not been drilled on a grid pattern. Drill hole spacing is considered appropriate for exploration purposes.
	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.	Data continuity is not sufficient at the current time to justify the estimation of a resource.
	Whether sample compositing has been applied.	No sample compositing has been applied.
Orientation of data in relation to geological	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit	At this early stage of exploration, the certainty of the mineralisation thickness', orientation and geometry is not known.
structure	type.	RC holes were drilled at an appropriate azimuth and dip so that they intersected geology approximately perpendicular to strike.
	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 orientation of drilling relative to key mineralised structures is not considered to have introduced sampling bias.
Sample security	The measures taken to ensure sample security.	Sample chain of custody is managed by Caspin Resources. Samples for the Yarawindah Brook Project are stored on site and delivered to the Bureau Veritas laboratory by Caspin personnel.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	No reviews have been carried out to date.

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

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 Yarawindah Brook Project is located approximately 15 km SSE of New Norcia in the SW of Western Australia and comprises five granted Exploration Licences (E70/4883, E70/5166, E70/5116, E70/5330 and E70/5335). Tenements are held by Southwest Metals Pty Ltd or Search Resources of which Caspin Resources Limited controls 80%, and Mr Scott Wilson, retains a 20% interest.
		Caspin has entered into land access and compensation agreement with the property owners on which Yarawindah Brook, Avena, Ovis, Brassica and XC29 Prospects are situated.
		Aboriginal Heritage Access Agreements are in place

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Criteria	JORC Code explanation	Commentary
		for the live tenements.
	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.	All tenements are in good standing. No Mining Agreement has been negotiated.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	The Yarawindah Brook Project area has been explored for Ni-Cu-PGE mineralisation since the discovery of outcropping Ni-Cu gossans in 1974. A series of drill programmes conducted by various companies since that time mainly focused on near- surface, laterite-hosted PGE mineralisation Later drilling programmes and limited electromagnetic surveying was conducted by Washington Resources, resulting in intersections of massive Ni- Cu-PGE sulphides; however, on-ground exploration of the project area has been limited since the GFC in 2008. The work completed by previous operators is considered by Caspin to be of a high standard.
Geology	Deposit type, geological setting and style of mineralisation.	The Yarawindah Brook Project is located within the Jimperding Metamorphic Belt hosted in the Lake Grace Terrane at the SW end of the Yilgarn Craton. In the area of the Yarawindah Brook, outcrop is poor with deep regolith development. Regionally, the lithological trend is NW, with moderate dips to the NE.
		The western portion of the project area is dominated by metasediments and gneiss containing lenses of mafic and ultramafic rocks. It is these mafic-ultramafic lithologies that are the hosts to Ni-Cu-PGE sulphide mineralisation and have been the main targets for exploration.
		The Yarawindah Brook Project is considered prospective for accumulations of massive, matrix and disseminated Ni-Cu sulphides, both within the mafic-ultramafic complex and as remobilised bodies in the country rocks.
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:	Drill hole collar information is published in the body of the report.
	• easting and northing of the drill hole collar	
	<ul> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> </ul>	
	• dip and azimuth of the hole	
	• down hole length and interception depth	
	• hole length.	
	If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	Not applicable, all information is included.

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Criteria	JORC Code explanation	Commentary
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.	Weighted averages for Yarawindah Brook mineralisation were calculated using variable parameters, due to the complications of reporting 5 elements: Ni, Cu, Pd, Pt and Au.
		Cut off grades for reporting significant intercepts are >0.1g/t Pd and/or Pt & Au and >0.3% Ni and/or Cu with a maximum internal dilution of 2m.
	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.	Short lengths of high-grade results use either a nominal 0.5% Ni or Cu lower cut-off or a geological boundary such as a massive sulphide interval, no minimum reporting length, 2 m maximum interval dilution and the minimum grade of the final composite of 0.5% Ni or Cu.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalent values reported.
Relationship between mineralisation widths and intercept lengths	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the 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 (eg 'down hole length, true width not known').	Mineralisation at Yarabrook Hill is poorly defined and orientations are approximate. Mineralisation is generally intersected obliquely to true-width and approximations have been made based on geological interpretations; however, true widths are unknown.
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 drill hole collar locations and appropriate sectional views.	Refer to Figures in body of text.
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.	All significant and relevant intercepts have been reported.
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.	All relevant exploration data is shown in figures, in text and in this Annexure 1.
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).	A discussion of further exploration work is outlined in the body of the report. Additional exploration work of RC drilling is planned.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	All relevant diagrams and inferences have been illustrated in this report.