BRYAH RESOURCES LIMITED

Bryah delivers Bonanza Gold Grades at Gabanintha

182 g/t Au interval highlights potential for significant gold mineralisation

- 247 samples assayed from 17 holes previously drilled at the Australian Vanadium Project at Gabanintha. Best gold intercepts:
  - 19RRC006 - **10m @ 27.5 g/t Au** from 53m, including **4m @ 64.3 g/t Au** from 54m, which includes **1m (55-56m) @ 182.0 g/t Au,** and 1m @ 6.4 g/t Au from 65m.
- High-grade gold occurs in a **cross-cutting fault zone** within the vanadium-titanium-magnetite (VTM) deposit, which **holds potential for significant gold mineralisation**.
- Major cross faults over 11 km VTM deposit now represent **untested gold targets.**
- Bryah to **advance assessment of growing gold potential** at Gabanintha by:
  - Immediate submission of further archived drill samples pulps for gold analysis, and
  - Follow-up planning for RC drilling program.
- Bryah Resources Limited holds a suite of mineral rights over the Gabanintha Project including nickel, copper and gold. Australian Vanadium Limited (AVL) holds the mineral rights to vanadium, titanium, iron ore and cobalt and is a 7.33% shareholder of Bryah.

Bryah Resources Limited ("Bryah" or "the Company") is pleased to advise the results from gold assaying of a further 247 drill samples from the Australian Vanadium Project ("Project") at Gabanintha, located approximately 40 km south of Meekatharra in central Western Australia.

These samples were submitted by Bryah for gold analysis following encouraging results from assays of an earlier batch in 2020[1] and as part of a systematic review of Bryah's mineral inventory at Gabanintha, including an updated Copper/Nickel mineral resource estimation, which is nearing completion.

Commenting on the latest results, Managing Director Neil Marston said:

"These latest gold assays are an outstanding result for the company and confirm the exciting gold potential of the historic mining area of Gabanintha.

"Last year we started assaying for gold from historical drilling within the vanadium deposit at Gabanintha. Recording exceptionally high-grade gold assays of 10 metres grading 27.5 g/t gold with 1 metre assays of up to 182 g/t Au within a fault cross-cutting the high-grade vanadium zone opens up a whole new exploration concept for the company to target."

[1] See BYH ASX announcement dates 10 February 2021 for full details.

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ASX Code: BYH
ABN: 59 616 795 245
Shares on issue: 153,540,508
Latest Share Price: $0.059
Market Capitalisation: $9.06M

Bryah hold the mineral rights to, inter alia, all nickel, copper and gold on the Project whilst Australian Vanadium Limited ("AVL") holds the rights to cobalt as well as the large vanadium-titanium-magnetite resource itself.

The vanadium-titanium-magnetite deposit is approximately 11.5km long within the Project area with most of this lying on Mining Lease M51/878 (see Figure 1). Drilling into the deposit has also identified the presence of nickel, copper and gold with the potential that these metals may be extracted economically[1].

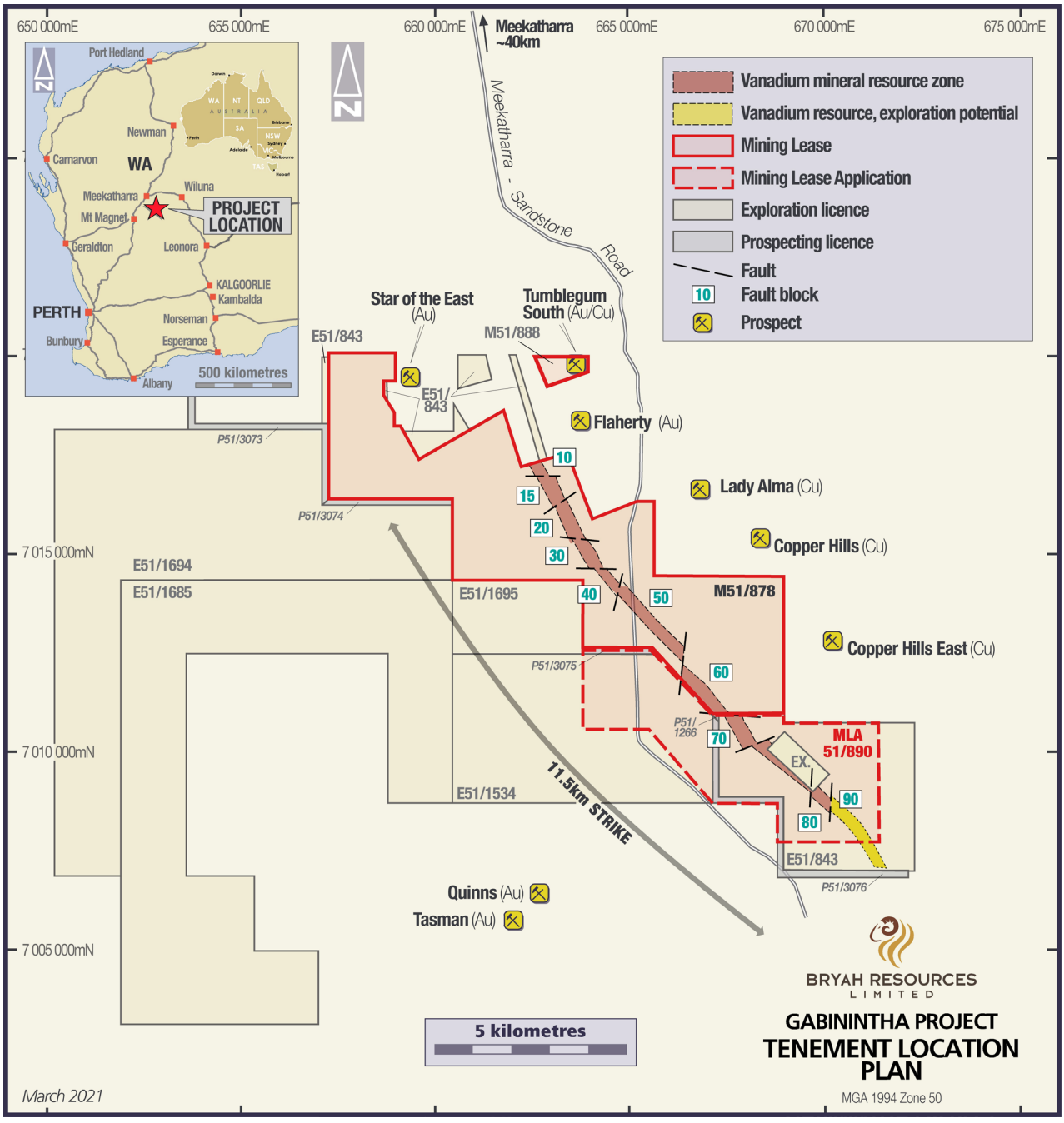

Figure 1 - Gabanintha Location Map

The Project is currently progressing through a Bankable Feasibility Study into the mining and processing of the vanadium-titanium-magnetite deposit by AVL. Bryah has been conducting activities to further assess the gold, nickel and copper potential of the deposit.

When developed, the project is expected to operate from multiple open pits for at least 25 years based on AVL's latest feasibility study[2]. Bryah's exploration activities for gold do not interfere with any of the current activities and studies being undertaken by AVL. AVL is Bryah's major shareholder holding 7.33% of shares on issue.

Gold Sampling

Historical sampling of the vanadium-titanium-magnetite deposit for gold (Au) has been limited. Prior to 2020, gold sampling was limited to sporadic analyses, totaling 233 analyses for gold, completed largely in 2010.

The drill samples were previously analysed by a XRF suite of elements related to vanadium exploration and have been stored by AVL in a Perth warehouse.

Sampling of 217 drill pulps in late 2020 highlighted the presence of zones of anomalous gold, adjacent to, or within the high-grade vanadium-titanium-magnetite domain at the Project, with the strongest gold mineralisation occurring in proximity to cross cutting regional faults.

An additional 247 pulps from 5 diamond and 16 RC holes drilled at the Project were recently submitted to follow up on the earlier results. Sample selection was based on the occurrence of high sulphur and/or copper plus known structure intercepts. Samples were not analysed for the full suite of Platinum Group Elements (PGEs) but did include Platinum (Pt) and Palladium (Pd) in addition to Au fire assay analysis.

A long section of the vanadium deposit (see Figure 2) shows the location of holes which have been partially assayed for gold, with highlights on the best intercepts received to date.

The best down hole width gold intercepts returned from this latest sample batch were:

19RRC006 - **10m @ 27.5 g/t Au** from 53m, including **4m @ 64.3 g/t Au** from 54m, which includes **1m (55-56m) @ 182.0 g/t Au**, and 1m @ 6.4 g/t Au from 65m.

19RRC011 - 2m @ 1.1 g/t Au from 125m, **1m @ 8.2 g/t Au** from 132m and 2m @ 1.6 g/t Au from 136m.

The above drill holes are highlighted on the long section (Figure 2), that shows the proximity of these intercepts to the modelled large-scale regional cross faults.

See Appendix 1 for further details of the gold assay results.

[2] See AVL ASX announcement dates 22 December 2020 for full details.

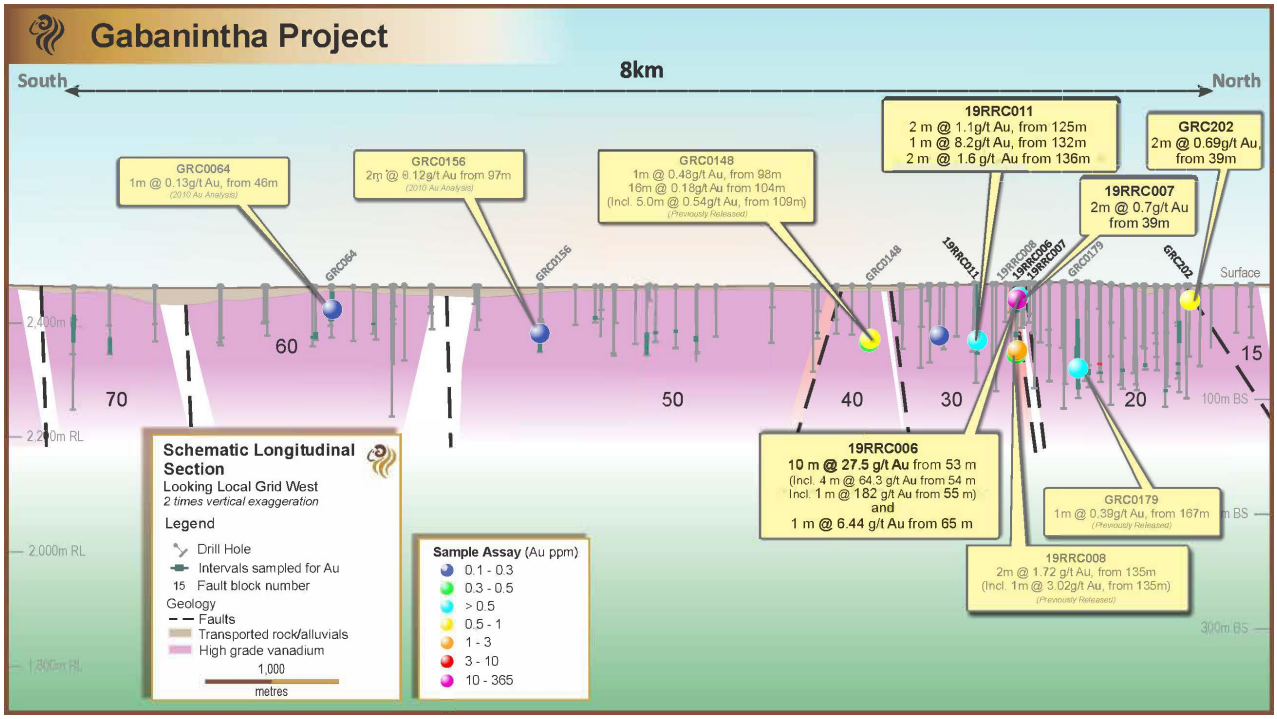

Figure 2 – Long Section (Local Grid) view of the Project with all gold sampling locations and highlight intercepts

The intercept in 19RRC006 and its relationship to the fault zone is shown on a local grid cross section in Figure 3. It should be noted that the adjacent drill hole 19RRC007 has not yet been fully assayed for gold and the bottom 3 metres of the hole appear to have terminated in a sheared/fault structure.

Geological Interpretation

There are several major faults which have broken up the vanadium deposit into discrete blocks over its entire length and these all now represent gold targets (see Figure 1).

A geological map showing the drill hole locations and mapped cross faults in the vicinity of hole 19RRC006 is shown in Figure 4. The extent of these faults outside of the vanadium deposit is not yet known.

It is possible that these cross faults have opened up pathways for secondary mineralisation to form, predominantly containing gold as well as copper.

The long section of the vanadium deposit in Figure 2 highlights the major cross faults which separate each block of the deposit. Each one of these offsetting cross faults has the potential to host secondary gold and copper mineralisation and accordingly will need further investigation as they have largely not been drill tested to date.

With these latest drill results the Company is becoming more confident that there is an association between the presence of large-scale regional fault-related brittle deformation of the contacts of the vanadium deposit, and the gold mineralisation.

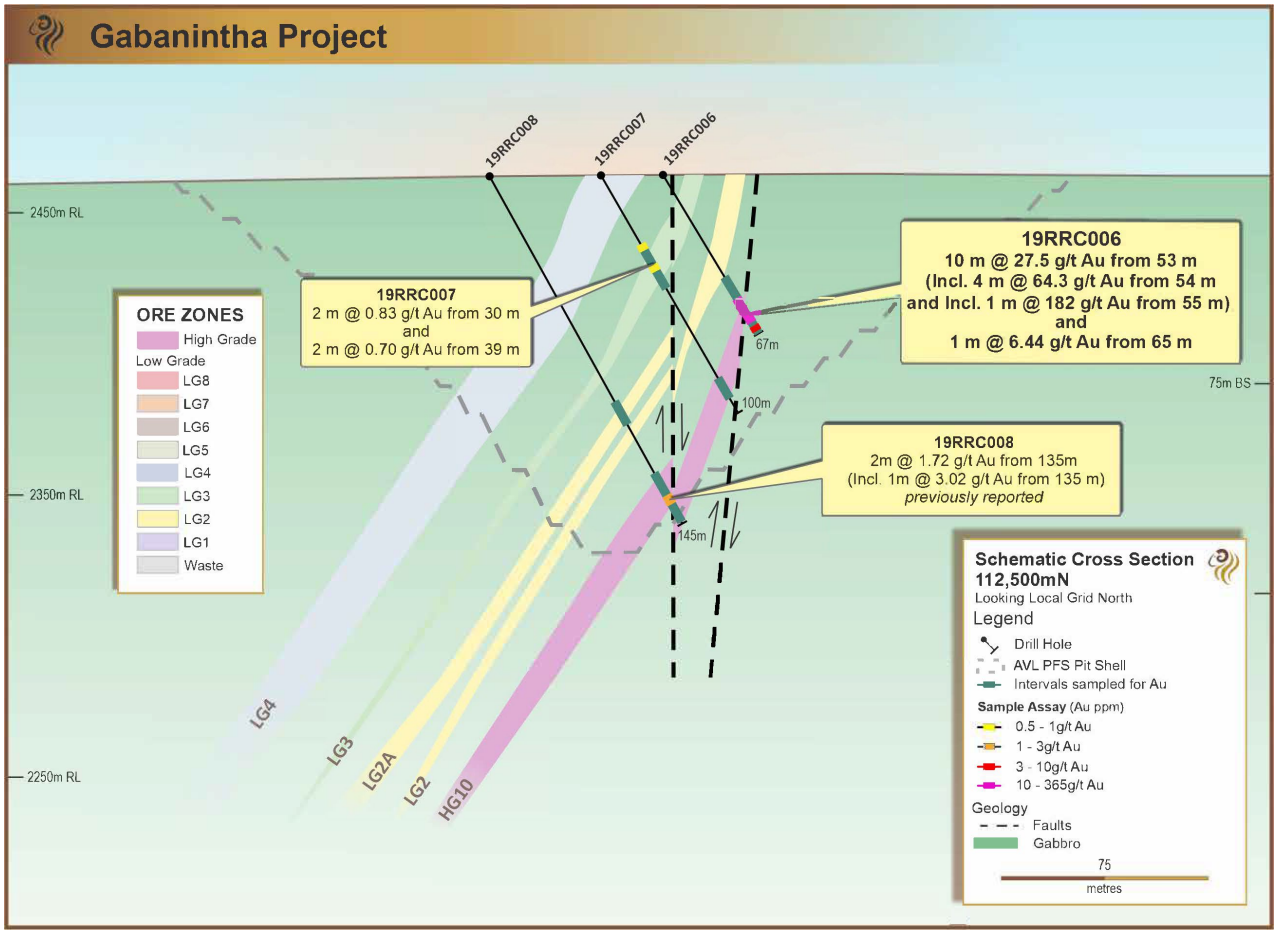

Figure 3 – Local Grid Cross Section at 112,500mN with gold intercept in hole 19RRC006

Figure 5 below shows an oblique view looking down the major faults shown in Figure 4. These faults are from the interpretation within the 3D geological model for the vanadium deposit. Gold sampling of RC holes drilled during 2019 to delineate this fault zone has preferentially returned good gold intercepts.

Follow-Up Work

The targets to test for gold has now broadened from focusing on the high-grade vanadium zone to also examining these important cross-cutting fault zones, of which there are several within our project.

Bryah will select further archived pulps from the Project to submit for Au, Pt and Pd analysis in the coming days. Sample selection criteria remains:

- proximity to known faults;
- elevated copper, barium, arsenic and/or sulphur;
- within or close to the high-grade vanadium domain (HG10); and/or
- testing continuity along strike or along fault planes around the significant intercepts recently identified.

It is expected that all the remaining untested samples for drill holes 19RRC006 – 19RRC008 and adjacent drill holes will be included in those submitted for gold analysis.

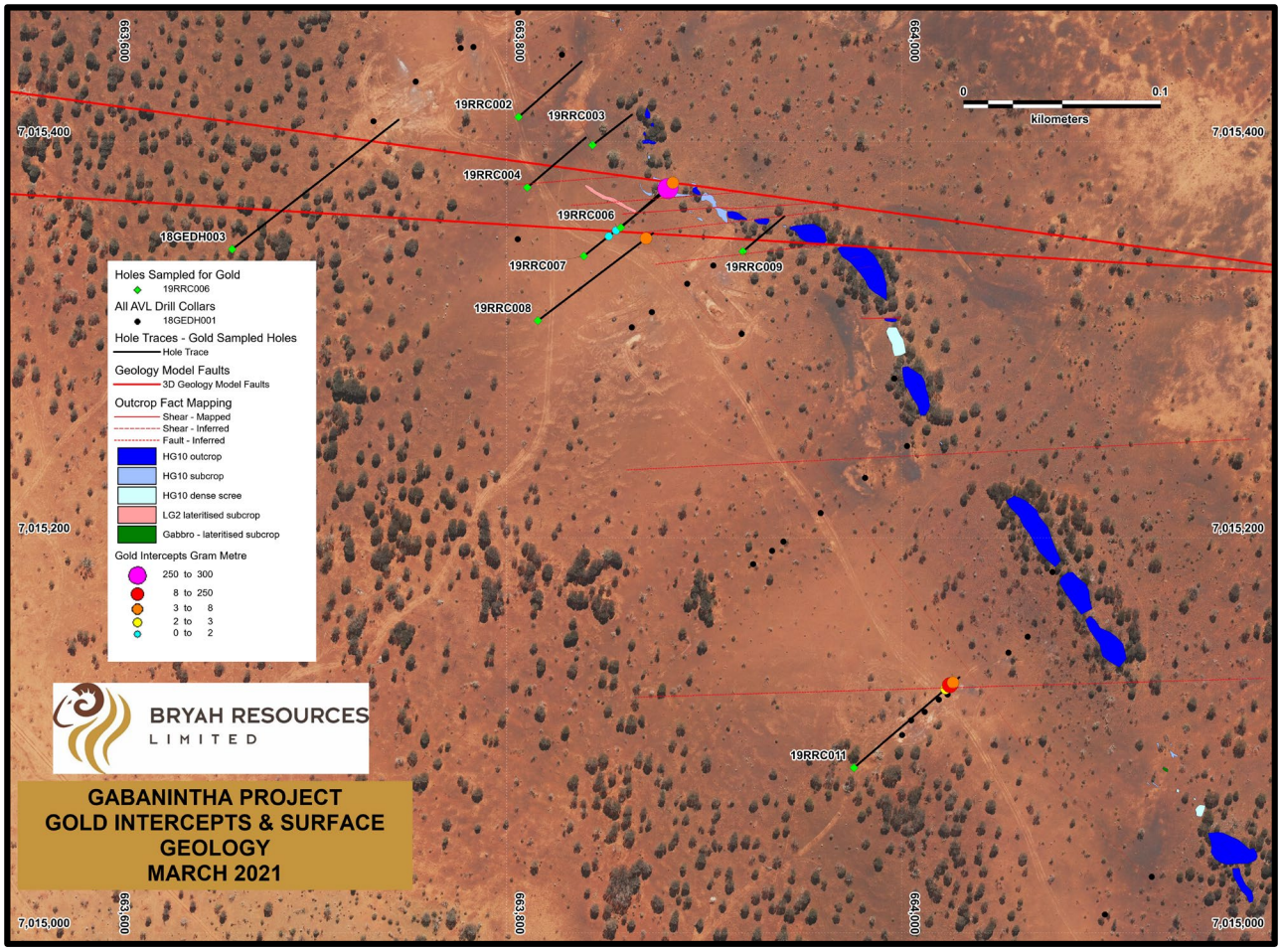

Figure 4 – Geological Map with Drill Hole Locations and Gram Metre Intercepts (MGA95 Zone50)

An RC drilling program to test the mapped cross fault zone is expected to follow. Earlier drilling has been largely oblique to the fault zones so we expect that follow-up drilling will see the drill rigs turned off-section to properly test these cross faults. An early aim will be to test how far gold mineralisation occurs along strike and at depth within these faults.

Heritage clearance surveys of the general area around 19RRC006 have previously been completed.

The Company is well advanced in updating the nickel-copper-cobalt mineral resource for the Project utilizing all the drilling completed in 2019 and 2020.

The current Inferred Mineral Resource is 14.3Mt @ 208ppm Cobalt, 666ppm Nickel, 217ppm Copper and 0.16% Sulphur[3].

The Mineral Resource update will be reported as soon as it becomes available.

[3] See BYH ASX announcement dated 28 November 2018 for full details.

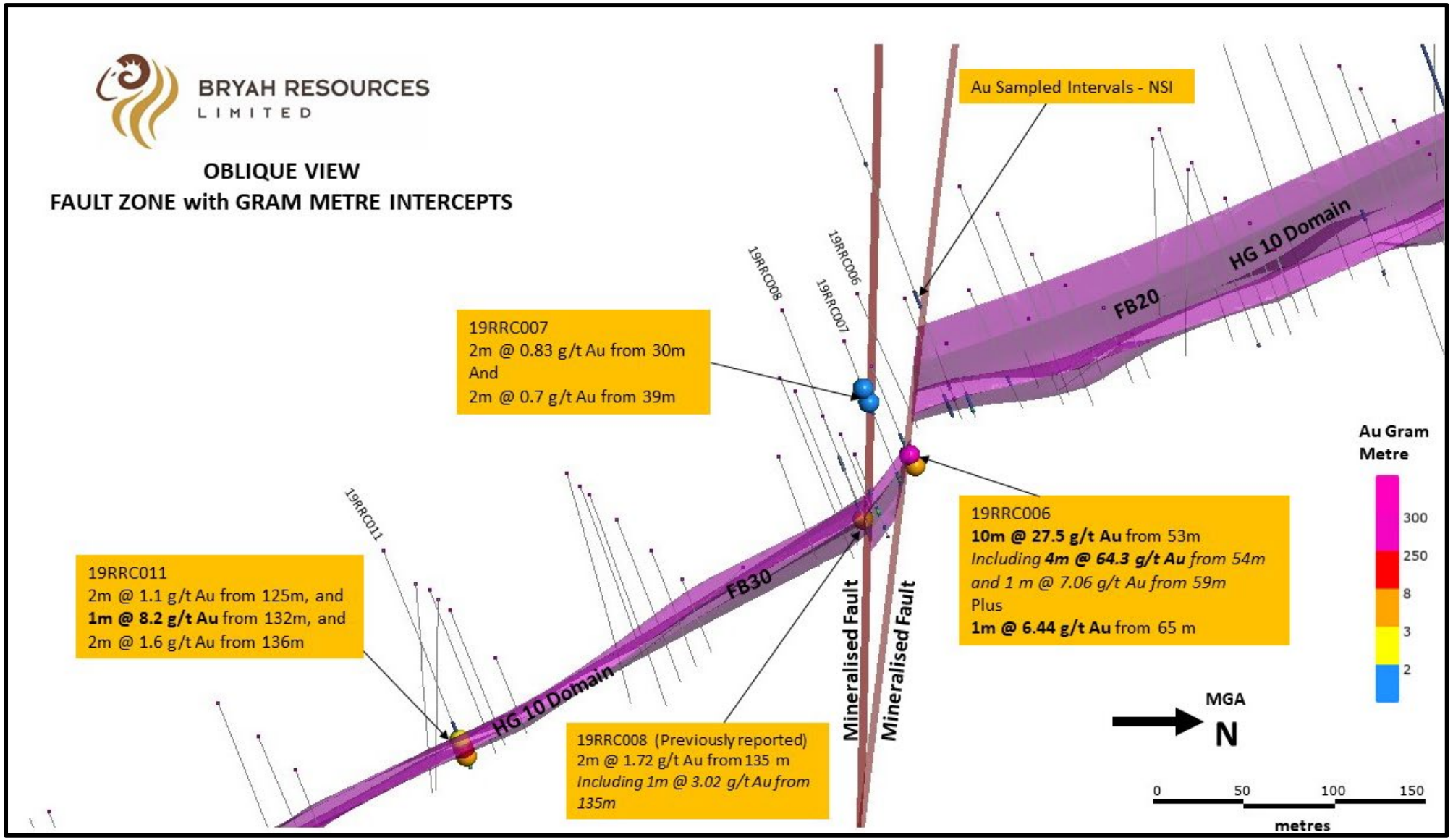

Figure 5 – Oblique View of Fault Zone and New Intercepts

The board of directors of Bryah Resources Limited has authorised this announcement to be given to the ASX.

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About Bryah Resources Limited

Bryah Resources Limited is a copper-gold-manganese focused explorer with 2 projects located in central Western Australia, being the 1,185km^2 Bryah Basin Project and the 170km^2 Gabanintha Project.

The Bryah Basin is host to the high-grade copper-gold mines at DeGrussa, discovered by Sandfire Resources Limited in 2009, and at Horseshoe Lights, which was mined until 1994. The Bryah Basin also has several historical and current manganese mines including the Company's recently acquired Horseshoe South mine. The Company has a joint venture agreement with OM (Manganese) Limited in respect to its manganese rights only on approximately 660 km^2 of its Bryah Basin tenement holdings.

At Gabanintha, Bryah holds the rights to all minerals except Vanadium, Uranium, Cobalt, Chromium, Titanium, Lithium, Tantalum, Manganese & Iron Ore (Excluded Minerals). Australian Vanadium Limited retains 100% rights in the Excluded Minerals on the Gabanintha Project. Bryah has announced a maiden Inferred Mineral Resource at the Tumblegum South Prospect at Gabanintha of 600,000 tonnes @ 2.2 g/t Au for 42,500 oz Au[4].The Company recently announced the disposal of the Tumblegum South Deposit to Star Minerals Limited[5].

[4] See BYH ASX Announcement dated 29 January 2020 for full details.
[5] See BYH ASX Announcement dated 9 March 2021 for full details

Competent Persons Statement – Exploration Results

The information in this announcement that relates to Exploration Results is based on information compiled by Mr Tony Standish, who is a Member of the Australian Institute of Geoscientists. Mr Standish is a consultant to Bryah Resources Limited ("the Company"). Tony Standish has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Tony Standish consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

Where the Company refers to Exploration Results in this announcement (referencing previous releases made to the ASX), the Company is not aware of any new information or data that materially affects the information included in the relevant market announcements.

Competent Person Statement — Mineral Resource Estimation

The information in this announcement that relates to Mineral Resources (see BYH ASX announcement dated 29 January 2020) is based on and fairly represents information compiled by Mr Ashley Jones, Consultant with Kamili Geology Pty Ltd. Mr Jones is a member of the Australasian Institute of Mining and Metallurgy (AusIMM).

The Company confirms that it is not aware of any new information or data that materially affects the information included in that announcement and all material assumptions and technical parameters underpinning the Mineral Resource estimate with that announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons findings are presented have not materially changed from the original announcement.

Forward Looking Statements

This report may contain certain "forward-looking statements" which may not have been based solely on historical facts, but rather may be based on the Company's current expectations about future events and results. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis. However, forward looking statements are subject to risks, uncertainties, assumptions and other factors which could cause actual results to differ materially from future results expressed, projected or implied by such forward-looking statements. Readers should not place undue reliance on forward looking information. The Company does not undertake any obligation to release publicly any revisions to any "forward looking statement" to reflect events or circumstances after the date of this report, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

APPENDIX 1: Gold, Platinum and Palladium Results

Collar Table in MGA94, Zone 50 co-ordinates and drill directions

Hole ID	Hole Type	Easting	Northing	RL	Hole Depth	Dip	Azimuth
18GEDH003	RCDT	663,661	7,015,346	465	216.2	-60	050°
19MTDT001	RCDT	664,219	7,014,782	463	141.4	-90	0°
19MTDT009	RCDT	663,467	7,015,988	467	181.8	-90	0°
19MTDT011	RCDT	663,395	7,016,126	465	145.8	-90	0°
19RRC002	RC	663,806	7,015,413	466	79	-60	050°
19RRC003	RC	663,843	7,015,399	466	49	-60	050°
19RRC004	RC	663,810	7,015,377	466	79	-60	050°
19RRC006	RC	663,858	7,015,357	466	67	-60	050°
19RRC007	RC	663,839	7,015,342	466	100	-60	050°
19RRC008	RC	663,816	7,015,310	466	145	-60	050°
19RRC009	RC	663,919	7,015,345	466	55	-60	050°
19RRC011	RC	663,976	7,015,083	466	146	-60	050°
GDH912	DDH	663,448	7,015,976	467	156.1	-60	050°
GRC0165	RC	663,724	7,015,538	469	119	-60	050°
GRC0167	RC	663,627	7,015,597	470	173	-60	050°
GRC0183	RC	663,561	7,015,860	467	119	-60	050°
GRC0184	RC	663,540	7,015,846	467	137	-60	050°
GRC0185	RC	663,519	7,015,831	467	149	-60	050°
GRC0202	RC	663,285	7,016,437	466	72	-60	050°
GRC0203	RC	663,259	7,016,417	466	107	-60	050°
GRC0210	RC	663,335	7,016,282	466	131	-60	050°

Fire Assay Results Table

Hole ID	From (m)	To (m)	Au g/t	Au g/t Repeat1	Au g/t Repeat2	Cu ppm	Pd g/t	Pt g/t	Domain
18GEDH003	48	49	0.002			640	BDL	BDL	HW Waste
18GEDH003	49	50	0.003			500	BDL	BDL	HW Waste
18GEDH003	132	133	0.006			140	BDL	BDL	HW Waste
18GEDH003	133	134	0.002			180	BDL	BDL	HW Waste
18GEDH003	134	135	0.004			190	BDL	BDL	HW Waste
18GEDH003	135	136	0.003			180	BDL	BDL	HW Waste
18GEDH003	136	137	0.002			190	BDL	BDL	HW Waste
18GEDH003	137	138	0.002			190	BDL	BDL	HW Waste
18GEDH003	138	139	0.003			180	BDL	BDL	HW Waste
18GEDH003	139	140	0.008			210	BDL	BDL	LG3
18GEDH003	140	140.7	0.01			110	BDL	BDL	LG3
18GEDH003	141.7	142.7	0.002			110	BDL	BDL	LG3
18GEDH003	142.7	143.2	0.003			130	BDL	BDL	LG3
18GEDH003	192	192.8	0.004			250	BDL	BDL	FW
18GEDH003	192.8	193.5	0.009			630	0.01	BDL	FW
18GEDH003	193.5	194.4	0.004			200	0.01	BDL	FW
18GEDH003	194.4	195.4	0.005			210	0.025	0.01	FW
18GEDH003	195.4	196	0.005			300	BDL	BDL	FW
18GEDH003	201.5	202.5	0.017			1100	0.01	0.01	LG1
18GEDH003	202.5	203.5	0.012			1240	0.005	BDL	LG1
19MTDT001	120.99	121.4	0.038			230	BDL	BDL	HG10
19MTDT001	121.44	122.1	0.005			30	BDL	BDL	HG10
19MTDT001	122.09	123.3	0.023			170	BDL	BDL	HG10
19MTDT001	123.29	124.5	0.008			360	BDL	BDL	HG10
19MTDT001	124.49	125.7	0.169			680	BDL	BDL	HG10
19MTDT001	131.45	132.2	0.013			520	BDL	BDL	HG10
19MTDT001	132.21	133.3	0.014			270	BDL	BDL	HG10
19MTDT001	133.32	133.7	0.004			120	BDL	BDL	HG10
19MTDT001	133.66	134.2	0.003			90	BDL	BDL	LG1
19MTDT001	134.23	134.5	0.008			650	0.005	0.01	LG1
19MTDT001	134.5	134.8	0.013			580	0.01	0.02	LG1
19MTDT001	134.8	135.7	0.015			1200	0.01	0.02	LG1
19MTDT001	135.65	136.5	0.056			2830	0.015	0.02	LG1
19MTDT001	136.5	137.2	0.048			6350	0.01	0.01	FW
19MTDT009	158.25	159.3	0.002			220	0.005	0.01	HG10
19MTDT009	159.33	160	0.002			290	BDL	BDL	HG10
19MTDT009	160	161	0.002			140	BDL	BDL	HG10
19MTDT009	161	162	0.002			180	BDL	BDL	HG10
19MTDT009	162	162.5	0.004			410	BDL	BDL	HG10
19MTDT009	162.54	163.8	0.005			250	BDL	BDL	HG10
19MTDT009	163.82	164.4	0.002			30	BDL	BDL	HG10
19MTDT009	164.4	165	0.002			100	BDL	BDL	HG10
19MTDT009	164.99	165.7	0.001			-10	BDL	BDL	FW
19MTDT009	165.65	166.4	0.003			600	BDL	BDL	LG1
19MTDT009	166.4	167.5	BDL			-10	BDL	BDL	LG1
19MTDT009	167.5	168.4	0.003			670	BDL	BDL	LG1
19MTDT009	168.35	169.2	0.003			320	BDL	BDL	FW
19MTDT009	169.2	169.9	0.002			260	BDL	BDL	FW
19MTDT009	169.88	170.9	0.003			610	BDL	BDL	FW
19MTDT009	170.91	172.5	0.008			340	BDL	BDL	FW
19MTDT009	172.47	173.2	0.005			800	BDL	BDL	FW

Hole ID	From (m)	To (m)	Au g/t	Au g/t Repeat1	Au g/t Repeat2	Cu ppm	Pd g/t	Pt g/t	Domain
19MTDT009	173.19	173.9	0.008			870	BDL	BDL	FW
19MTDT009	173.9	175.1	0.007			890	BDL	BDL	FW
19MTDT009	175.14	176.4	0.006			1280	BDL	BDL	FW
19MTDT009	176.38	176.9	0.008			400	BDL	BDL	FW
19MTDT011	129.65	130.7	0.006			710	BDL	BDL	HG10
19MTDT011	130.65	131.7	0.004			260	BDL	BDL	HG10
19MTDT011	131.65	132.7	0.003			220	BDL	BDL	HG10
19MTDT011	132.65	133.7	0.004			210	BDL	BDL	HG10
19MTDT011	133.65	134.7	0.004			90	BDL	BDL	HG10
19MTDT011	134.65	135.7	0.004			120	BDL	BDL	HG10
19MTDT011	135.65	136.7	0.006			140	BDL	BDL	HG10
19MTDT011	136.65	137.7	0.005			180	BDL	BDL	HG10
19MTDT011	137.65	138.7	0.005			230	BDL	BDL	HG10
19MTDT011	139.65	140.5	0.002			100	BDL	BDL	HG10
19MTDT011	140.52	140.9	0.004			290	BDL	BDL	HG10
19MTDT011	140.85	141.3	0.006			230	BDL	BDL	HG10
19RRC002	57	58	0.013			370	0.005	BDL	HG10
19RRC002	58	59	0.012			570	BDL	BDL	HG10
19RRC002	59	60	0.035			700	0.005	0.01	HG10
19RRC002	60	61	0.024			640	BDL	BDL	HG10
19RRC002	61	62	0.012			370	BDL	BDL	HG10
19RRC002	62	63	0.054			410	BDL	BDL	HG10
19RRC003	32	33	0.016			330	BDL	BDL	HG10
19RRC003	33	34	0.023			290	BDL	BDL	HG10
19RRC003	34	35	0.009			700	0.02	0.01	FW
19RRC003	35	36	0.01			530	0.02	0.01	LG1
19RRC003	36	37	0.013			440	0.015	0.01	LG1
19RRC003	37	38	0.014			540	0.015	BDL	FW
19RRC003	38	39	0.006			460	0.015	0.01	FW
19RRC003	39	40	0.036			780	0.01	BDL	FW
19RRC003	40	41	0.032			620	0.01	0.01	FW
19RRC003	41	42	0.08			820	0.01	0.01	FW
19RRC003	42	43	0.18			1030	0.01	0.01	FW
19RRC003	43	44	0.056			1000	0.005	BDL	FW
19RRC003	44	45	0.037			600	BDL	BDL	FW
19RRC004	64	65	0.002			420	BDL	BDL	HG10
19RRC004	65	66	0.005			250	BDL	BDL	HG10
19RRC004	66	67	0.004			170	BDL	BDL	HG10
19RRC004	67	68	0.014			240	BDL	BDL	HG10
19RRC004	68	69	0.027			330	BDL	BDL	HG10
19RRC004	69	70	0.069			420	BDL	BDL	HG10
19RRC004	70	71	0.006			580	BDL	BDL	HG10
19RRC004	71	72	0.008			630	BDL	BDL	HG10
19RRC004	72	73	0.006			430	BDL	BDL	HG10
19RRC004	73	74	0.018			280	0.005	0.01	HG10
19RRC004	74	75	0.005			350	BDL	BDL	HG10
19RRC004	75	76	0.005			300	0.01	0.01	FW
19RRC004	76	77	0.003			530	0.005	BDL	LG1
19RRC004	77	78	0.005			760	0.005	BDL	FW
19RRC004	78	79	0.017			650	BDL	BDL	FW
19RRC006	44	45	0.003			200	BDL	BDL	HW Waste
19RRC006	45	46	0.014			500	BDL	BDL	HW Waste

Hole ID	From (m)	To (m)	Au g/t	Au g/t Repeat1	Au g/t Repeat2	Cu ppm	Pd g/t	Pt g/t	Domain
19RRC006	46	47	0.023			680	BDL	BDL	HW Waste
19RRC006	47	48	0.102			900	BDL	BDL	HW Waste
19RRC006	48	49	0.063			900	BDL	BDL	HW Waste
19RRC006	49	50	0.055			860	BDL	BDL	HW Waste
19RRC006	50	51	0.034			650	0.005	BDL	HW Waste
19RRC006	51	52	0.103			1030	0.005	BDL	HW Waste
19RRC006	52	53	0.261			1470	0.005	0.01	HW Waste
19RRC006	53	54	**4.53**			1610	0.01	0.01	HW Waste
19RRC006	54	55	**14.3**	**13.0**		1190	BDL	0.01	HW Waste
19RRC006	55	56	**182**	**183**	**187**	2570	BDL	BDL	HG10
19RRC006	56	57	**52.0**	**53.1**		2190	0.005	BDL	FW
19RRC006	57	58	**9.19**	**9.63**		570	BDL	BDL	FW
19RRC006	58	59	**2.26**		**2.59**	730	BDL	BDL	FW
19RRC006	59	60	**7.06**	**5.96**		350	BDL	BDL	FW
19RRC006	60	61	**1.19**			250	BDL	BDL	FW
19RRC006	61	62	**1.98**			390	BDL	BDL	FW
19RRC006	62	63	0.635			250	BDL	BDL	FW
19RRC006	63	64	0.245			270	BDL	BDL	FW
19RRC006	64	65	0.434			320	BDL	BDL	FW
19RRC006	65	66	**6.44**	**5.19**		230	BDL	BDL	FW
19RRC006	66	67	0.297			240	BDL	BDL	FW
19RRC007	30	31	0.505			190	BDL	BDL	HW Waste
19RRC007	31	32	**1.15**			260	BDL	BDL	HW Waste
19RRC007	32	33	0.13			110	BDL	BDL	HW Waste
19RRC007	33	34	0.059			80	BDL	BDL	HW Waste
19RRC007	34	35	0.136			130	BDL	BDL	HW Waste
19RRC007	35	36	0.051			160	BDL	BDL	HW Waste
19RRC007	36	37	0.192			150	BDL	BDL	HW Waste
19RRC007	37	38	0.261			430	BDL	BDL	LG3
19RRC007	38	39	0.237			550	BDL	BDL	LG3
19RRC007	39	40	0.842			540	BDL	BDL	LG3
19RRC007	40	41	0.565			580	BDL	BDL	LG3
19RRC007	41	42	0.260			380	BDL	BDL	LG3
19RRC007	42	43	0.121			320	BDL	BDL	LG3
19RRC007	43	44	0.466			400	BDL	BDL	LG3
19RRC007	44	45	0.074			400	BDL	BDL	LG3
19RRC007	45	46	0.010			350	BDL	BDL	HW Waste
19RRC007	46	47	0.005			310	BDL	BDL	HW Waste
19RRC007	47	48	0.013			290	BDL	0.01	HW Waste
19RRC007	86	87	0.075			320	BDL	BDL	HG10
19RRC007	87	88	0.124			130	BDL	BDL	HG10
19RRC007	88	89	0.060			190	BDL	BDL	HG10
19RRC007	89	90	0.142			110	BDL	BDL	HG10
19RRC007	90	91	0.167			140	BDL	BDL	HG10
19RRC007	91	92	0.027			320	BDL	BDL	HG10
19RRC007	92	93	0.064			150	BDL	BDL	HG10
19RRC007	93	94	0.035			270	BDL	BDL	HG10
19RRC008	137	138	0.147			220	BDL	BDL	FW
19RRC008	138	139	0.323			430	0.005	0.02	FW
19RRC008	139	140	0.057			170	BDL	BDL	FW
19RRC008	140	141	0.029			260	BDL	BDL	FW
19RRC008	141	142	0.022			150	BDL	BDL	FW

Hole ID	From (m)	To (m)	Au g/t	Au g/t Repeat1	Au g/t Repeat2	Cu ppm	Pd g/t	Pt g/t	Domain
19RRC008	142	143	0.024			110	BDL	BDL	FW
19RRC008	143	144	0.015			110	BDL	BDL	FW
19RRC008	144	145	0.014			160	BDL	BDL	FW
19RRC009	23	24	0.014			310	0.005	BDL	HW Waste
19RRC009	24	25	0.008			370	0.005	0.01	HW Waste
19RRC009	25	26	0.029			220	0.005	BDL	HW Waste
19RRC009	26	27	0.009			200	BDL	BDL	HG10
19RRC009	35	36	0.067			450	0.005	0.01	FW
19RRC009	36	37	0.298			390	0.005	0.01	FW
19RRC009	37	38	0.165			430	0.005	BDL	LG1
19RRC009	38	39	0.003			290	BDL	BDL	LG1
19RRC009	39	40	0.064			550	0.005	0.01	LG1
19RRC009	47	48	0.042			670	BDL	BDL	FW
19RRC009	48	49	0.042			780	BDL	BDL	FW
19RRC009	54	55	0.026			1030	0.005	BDL	FW
19RRC011	114	115	0.001			50	BDL	BDL	HW Waste
19RRC011	115	116	0.035			70	BDL	BDL	HW Waste
19RRC011	116	117	0.008			80	BDL	BDL	HW Waste
19RRC011	117	118	0.015			130	0.005	BDL	HW Waste
19RRC011	118	119	0.004			80	BDL	BDL	HW Waste
19RRC011	119	120	0.006			60	BDL	BDL	HW Waste
19RRC011	120	121	0.009			70	BDL	BDL	HW Waste
19RRC011	121	122	0.053			140	0.005	BDL	HW Waste
19RRC011	122	123	0.019			230	0.005	0.01	LG2
19RRC011	123	124	0.062			230	0.005	BDL	LG2
19RRC011	124	125	0.021			300	BDL	0.01	HW Waste
19RRC011	125	126	**1.33**			1670	0.005	BDL	HG10
19RRC011	126	127	0.836			620	BDL	BDL	HG10
19RRC011	127	128	0.324			760	BDL	BDL	HG10
19RRC011	128	129	0.194			520	BDL	BDL	HG10
19RRC011	129	131	0.076			130	BDL	BDL	FW
19RRC011	131	132	0.077			410	BDL	BDL	FW
19RRC011	132	133	**8.20**	**7.86**		550	BDL	BDL	FW
19RRC011	133	134	0.119			720	BDL	BDL	FW
19RRC011	134	135	0.065			560	BDL	BDL	FW
19RRC011	135	136	0.021			820	BDL	BDL	LG1
19RRC011	136	137	**1.90**			1710	BDL	BDL	LG1
19RRC011	137	138	**1.26**			780	0.015	0.01	FW
19RRC011	138	139	0.028			120	BDL	BDL	FW
19RRC011	139	140	0.013			1900	BDL	BDL	FW
19RRC011	140	141	0.017			2900	BDL	BDL	FW
19RRC011	141	142	0.043			570	BDL	BDL	FW
19RRC011	142	143	0.180			400	BDL	BDL	FW
19RRC011	143	144	0.118			250	BDL	BDL	FW
19RRC011	144	145	0.040			130	BDL	BDL	FW
GDH912	124	125	0.005			390	BDL	BDL	HG10
GDH912	125	126	0.002			370	BDL	BDL	HG10
GDH912	126	127	0.002			100	BDL	BDL	HG10
GDH912	127	128	0.001			140	BDL	BDL	HG10
GDH912	128	129	0.002			140	BDL	BDL	HG10
GDH912	129	130	0.002			110	BDL	BDL	HG10
GDH912	130	131	0.001			150	BDL	BDL	HG10

Hole ID	From (m)	To (m)	Au g/t	Au g/t Repeat1	Au g/t Repeat2	Cu ppm	Pd g/t	Pt g/t	Domain
GDH912	131	132	0.002			250	BDL	BDL	HG10
GDH912	132	133	0.004			700	BDL	BDL	HG10
GDH912	133	134	0.003			210	BDL	BDL	HG10
GDH912	134	135	0.004			130	BDL	BDL	HG10
GDH912	135	136	0.005			160	BDL	BDL	HG10
GDH912	136	137	0.002			70	BDL	BDL	HG10
GDH912	137	138	0.002			60	BDL	BDL	HG10
GDH912	138	139	0.002			150	0.005	BDL	HG10
GDH912	139	140	0.018			110	BDL	BDL	HG10
GDH912	140	141	0.004			480	0.01	0.01	HG10
GDH912	141	142	0.002			180	BDL	BDL	LG1
GDH912	142	143	0.002			230	0.01	0.01	LG1
GDH912	143	144	0.005			690	0.02	0.01	LG1
GDH912	144	145	0.009			1650	0.01	0.01	FW
GRC0165	117	118	0.028			1960	0.01	0.01	FW
GRC0165	118	119	0.030			2300	0.015	0.01	FW
GRC0167	123	124	0.003			200	BDL	BDL	HG10
GRC0167	124	125	0.005			440	BDL	BDL	HG10
GRC0167	125	126	0.004			130	BDL	BDL	HG10
GRC0167	126	127	0.002			70	BDL	BDL	HG10
GRC0167	127	128	0.004			100	BDL	BDL	HG10
GRC0167	128	129	0.003			220	BDL	BDL	HG10
GRC0167	129	130	0.002			50	BDL	BDL	HG10
GRC0167	162	163	0.072			420	BDL	BDL	FW
GRC0167	163	164	0.019			1670	0.01	0.01	FW
GRC0167	164	165	0.081			1650	0.005	0.01	FW
GRC0183	112	113	0.022			2440	0.01	0.01	FW
GRC0183	113	114	0.014			710	BDL	BDL	FW
GRC0184	129	130	0.018			880	0.02	0.01	FW
GRC0184	130	131	0.018			1650	0.025	BDL	FW
GRC0184	131	132	0.011			580	BDL	BDL	FW
GRC0202	39	40	0.595			1080	0.005	BDL	HW Waste
GRC0202	40	41	0.600			1090	0.015	0.01	HW Waste
GRC0203	102	103	0.018			1100	0.015	BDL	FW
GRC0203	103	104	0.038			2100	0.025	0.02	FW
GRC0203	104	105	0.014			890	0.01	0.01	FW
GRC0203	105	106	0.017			940	BDL	BDL	FW
GRC0210	128	129	0.029			2600	0.015	0.01	FW
GRC0210	129	130	0.059			1930	0.015	BDL	FW
GRC0210	130	131	0.019			800	0.005	BDL	FW

APPENDIX 2: JORC, 2012 Edition Table 1, Sections 1 to 4

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.	The Gabanintha vanadium – titanium deposit was sampled using diamond core and reverse circulation (RC) percussion drilling from surface. During 2019 43 RC holes were drilled; 30 RC holes were drilled for 2,236m in the December 2019 drilling on blocks 16 and 8, and 13 RC holes for 1,224m drilled during October 2019. A further 30 PQ diamond drill holes were completed by March 2019, to collect metallurgy sample for a plant pilot study. 12 were drilled down-dip into the high-grade zone. These were complimented by an additional 18 PQ diamond drill tails on RC pre-collars, drilling vertically. The down dip holes were measured by hand-held XRF at 50 cm intervals to inform vanadium metallurgy characterisation. 14 of the 18 diamond tails were cut and a ¼ of the PQ sized core was sent for analysis. At the time of the latest AVL vanadium – titanium Mineral Resource estimation (does not include gold or other precious metals) (March 2020), a total of 280 RC holes and 50 diamond holes (24 of which are diamond tails) were drilled into the AVL portion of the deposit. 20 of the 330 holes were either too far north or east of the main mineralisation trend. One section in the southern part of the deposit (holes GRC0156, GRC0074, GRC0037 and GRC0038) was blocked out and excluded from the vanadium – titanium Mineral Resource due to what appeared to be an intrusion which affected the mineralised zones in this area. Of the remaining 310 drill holes, one had geological logging, but no assays and one was excluded due to poor sample return causing poor representation of the mineralised zones. Two diamond holes drilled during 2018 were not part of the vanadium – titanium Mineral Resource estimate, as they were drilled into the western wall for geotechnical purposes. The total metres of drilling available for use in the interpretation and grade estimation was 26 660.89m of drilling with 23,650.32 metres being RC and 3,010.57 metres of DDH over 305 holes at the date of the most recent Mineral Resource estimate. 18 down-dip metallurgical drillholes and 4 metallurgical diamond tails contribute magnetic susceptibility and geological logging to the Mineral Resource estimation, but not assay data, being drilled to provide metallurgical sample. The initial 17 RC drill holes were drilled by Intermin Resources NL (IRC) in 1998. These holes were not used in the 2015, 2017, 2018 and 2020 estimates due to very long unequal sample lengths and a different grade profile from subsequent drilling. 31 RC drill holes were drilled by Greater Pacific NL in 2000 and the remaining holes for the Project were drilled by Australian Vanadium Ltd (previously Yellow Rock Resources Ltd) between 2007 and 2019. This drilling includes 50 diamond holes (24 of which are diamond tails) and 170 RC holes, for a total of 27,655.75m drilled. All of the drilling sampled both high and low-grade material and were sampled for XRF assaying of a typical iron ore suite, including vanadium and titanium plus base metals and sulphur. Loss on Ignition was also assayed. Of the available drill samples (greater than 26,000 samples) less than 3 percent have been assayed for gold, with 701 samples recording gold analysis in the database at the time of this report. All drill pulps prepared at commercial laboratories have been retained at the AVL storage facility and are available for additional analysis, with the exception of the very earliest drilling (pre-2002).
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	PQ core from 2019 diamond tails was ¼ cored and sent for assay. The remaining core went to make up the pilot plant metallurgical sample. The down dip 2019 PQ core has not been sampled, though handheld XRF datapoints were captured, as well as magnetic susceptibility data. Handheld XRF machines being used to take ½ metre measurements on the core have been calibrated using pulps from previous drilling by the Company, for which there are known head assays. 2018 HQ diamond core was half-core sampled at regular intervals (usually one metre) with smaller sample intervals at geological boundaries. 2015 diamond core was quarter-core sampled at regular intervals (usually one metre) and constrained to geological boundaries where appropriate. 2009 HQ diamond core was half-core sampled at regular intervals (one metre) or to geological boundaries. Most of the RC drilling was sampled at one metre intervals, apart from the very earliest programme in 1998. RC samples have been split from the rig for all programmes with a cone splitter to obtain 2.5 – 3.5 kg of sample from each metre. Field duplicates were collected for every 40th drill metre to check

Criteria	JORC Code Explanation	Commentary
		sample grade representation from the drill rig splitter. During the October 2019 RC programme, field duplicates were collected from the rig splitter for every 30th drill metre. During the December 2019 RC programme, field duplicates were collected from the rig splitter for every 20th drill metre. Certified Reference Materials (CRMs) are inserted with each lab batch to verify accuracy on analysis. Vanadium CRMs are in use for the vanadium-titanium resource sampling.
	Aspects of the determination of mineralisation that are Material to the Public Report.	RC drilling samples were collected at one metre intervals and passed through a cone splitter to obtain a nominal 2.5-3kg sample at an approximate 10% split ratio. These split samples were collected in pre-numbered calico sample bags. The sample was dried, crushed and pulverised to produce a sub sample (~200g) for laboratory analysis using XRF and total LOI by thermo-gravimetric analysis. Diamond core was drilled predominantly at HQ size for the earlier drilling (2009) and entirely HQ for the 2018 programme with the 2015 and 2019 drilling at PQ3 size. Field duplicates, standards and blanks have been inserted into the sampling stream at a rate of nominally 1:20 for blanks, 1:20 for standards (including internal laboratory), 1:40 for field duplicates, 1:20 for laboratory checks and 1:74 for umpire assays. For this RC programme completed in December 2019, the field duplicates were incorporated at a rate of 1:20, while standards 1:50 and blanks also 1:50. The latest batches of archive drill pulp samples were analysed for Au, Pt and Pd used 50-gram Fire Assay with ICP-AES finish.
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 type, whether core is oriented and if so, by what method, etc.).	Diamond drill holes account for 16% of the drill metres used in the vanadium – titanium Resource Estimate and comprises HQ and PQ3 sized core. RC drilling (generally 135 mm to 140 mm face-sampling hammer) accounts for the remaining 84% of the drilled metres. Six of the diamond holes have RC pre-collars (GDH911, GDH913 & GDH916, 18GEDH001, 002 and 003), otherwise all holes are drilled from surface. No core orientation data has been recorded in the database. 17 RC holes were drilled during the 2018 programme and three HQ diamond tails were drilled on RC pre-collars for resource and geotechnical purposes. The core was not orientated but all diamond holes were logged by OTV and ATV televiewer. Six RC holes from the 2018 campaign are not used in the resource estimate due to results pending at the time of the update, and two diamond holes drilled during 2018 were not used as they are for geotechnical purposes and do not intersect the mineralised zones. During 2019 a further 12 PQ diamond holes were drilled down-dip on the high-grade zone for metallurgical sample but have not been sampled for assay analysis as they have been sampled for the metallurgy pilot study programme. As such they do not form part of any resource estimation. An addition 18 PQ diamond tails on RC pre-collars have been drilled vertically, of which 14 contribute to the resource. two were used for the metallurgy pilot study programme, one was not sampled due to core loss and a further core hole cut but not submitted for assay. A further 43 RC holes using a 140 mm face hammer on a Schramm drill rig have been completed during October and December 2019.
Drill Sample Recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	Diamond core recovery is measured when the core is recovered from the drill string. The length of core in the tray is compared with the expected drilled length and is recorded in the database. For the 2019, 2018 and 2015 drilling, RC chip sample recovery was judged by how much of the sample was returned from the cone splitter. This was recorded as good, fair, poor or no sample. The older drilling programmes used a different splitter, but still compared and recorded how much sample was returned for the drilled intervals. All of the RC sample bags (non-split portion) from the 2018 programme were weighed as an additional check on recovery. An experienced AVL geologist was present during drilling and any issues noticed were immediately rectified. No significant sample recovery issues were encountered in the RC or PQ drilling in 2015. No significant sample recovery issues were encountered in the RC or PQ drilling in 2019 except where core loss occurred in three holes intersecting high grade ore. This involved holes 19MTDT012 between 142.9m and 143.3m; 19MTDT013 from 149m to 149.6m, 151m to 151.4m and 159.5m to 160m; as well as 19MTDT016 between 29.5m and 30.7m down hole. In each case the interval lost was included as zero grade for all elements for the estimation of the total mineralised intercept.

Criteria	JORC Code Explanation	Commentary
	Measures taken to maximize sample recovery and ensure representative nature of the samples.	Core depths are checked against the depth given on the core blocks and rod counts are routinely carried out by the drillers. Recovered core was measured and compared against driller's blocks. 2019 diamond core samples had a coarse split created at the laboratory that was also analysed to evaluate laboratory splitting of the sample. RC chip samples were actively monitored by the geologist whilst drilling. Field duplicates have been taken at a frequency between every 30th and every 50th metre in every RC drill campaign. All drill holes are collared with PVC pipe for the first metres, to ensure the hole stays open and clean from debris.
	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 sample recovery and grade has been demonstrated. Two shallow diamond drill holes drilled to twin RC holes have been completed to assess sample bias due to preferential loss/gain of fine/coarse material. Bryah is satisfied that the RC holes have taken a sufficiently representative sample of the mineralisation and minimal loss of fines has occurred in the RC drilling resulting in minimal sample bias.
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.	All diamond core and RC chips from holes included in the latest resource estimate were geologically logged. Diamond core was geologically logged using predefined lithological, mineralogical and physical characteristics (such as colour, weathering, fabric, texture) logging codes and the logged intervals were based on lithological intervals. RQD and recoveries were also recorded. Minimal structural measurements were recorded (bedding to core angle measurements) but have not yet been saved to the database. The logging was completed on site by the responsible geologist. All of the drilling through to 2019 was logged onto paper and was transferred to a SQL Server drill hole database using DataShed™ database management software. The database is managed by Mitchell River Group (MRG). The data was checked for accuracy when transferred to ensure that correct information was recorded. Any discrepancies were referred back to field personnel for checking and editing. After 2019 logging was completed in excel, then subject to the above same validation and database load process. All core trays were photographed wet and dry. RC chips were logged generally on metre intervals, with the abundance/proportions of specific minerals, material types, lithologies, weathering and colour recorded. Physical hardness for RC holes is estimated by chip recovery and properties (friability, angularity) and in diamond holes by scratch testing. From 2015, drilling also had magnetic susceptibility recorded, with the first nine diamond holes (GDH901-GDH909) having readings taken on the core generally every 30 cm downhole. Holes GDH910 to GDH917 had readings every 50 cm and RC holes GRC0159 to GRC0221 had readings for each one metre green sample bag. 2018 RC drill holes also have magnetic susceptibility data for each one metre of drilling. Pulps from historic drill holes have been measured for magnetic susceptibility, with calibration on results applied from control sample measurement of pulps from drill programs from 2015 onwards where measurements of the RC bags already exist. All resource (vs geotechnical) diamond core and RC samples have been logged to a level of detail to support Mineral Resource estimation and classification to Measured Mineral Resource at best. Geotechnical logging and OTV/ATV data was collected on three diamond drill holes from the 2018 campaign, by consultant company Dempers and Seymour, adding to an existing dataset of geotechnical logging on 8 of the 2015 diamond drill holes and televiewer data for four of the same drill holes. In addition, during 2018 televiewer data was collected on a further 15 RC drill holes from various drill campaigns at the Project. PQ diamond drill holes completed during 2019 were geologically and geotechnically logged in detail by the site geologists.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography	Logging was both qualitative and quantitative in nature, with general lithology information recorded as qualitative and most mineralisation records and geotechnical records being quantitative. Core photos were collected for all diamond drilling.
	The total length and percentage of the relevant intersections logged.	All recovered intervals were geologically logged.

Criteria	JORC Code Explanation	Commentary
Sub-Sampling Techniques and Sample Preparation	If core, whether cut or sawn and whether quarter, half or all core taken.	The 2018 and 2009 HQ diamond core were cut in half and the half core samples were sent to the laboratories for assaying. Sample intervals were marked on the core by the responsible geologist considering lithological and structural features. No core was selected for duplicate analysis. The 2015 PQ diamond core was cut in half and then the right-hand side of the core (facing downhole) was halved again using a powered core saw. Quarter core samples were sent to the laboratories for assaying. Sample intervals were marked on the core by the responsible geologist considering lithological and structural features. No core was selected for duplicate analysis. 14 of the 18 total vertical diamond PQ diamond drill holes from 2019 have been quarter core sampled and assayed. Sample intervals were marked on the core by the responsible geologist considering lithological and structural features.
	If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.	RC drilling was sampled by use of an automatic cone splitter for the 2019, 2018 and 2015 drilling programmes; drilling was generally dry with a few damp samples and occasional wet samples. Older drilling programmes employed riffle splitters to produce the required sample splits for assaying. One in 40 to 50 RC samples was resampled as field duplicates for QAQC assaying, with this frequency increasing to one in 30 for the October 2019 RC drilling, and one in 20 for the December 2019 RC drilling.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	The sample preparation techniques employed for the diamond core samples follow standard industry best practice. All samples were crushed by jaw and Boyd crushers and split if required to produce a standardised ~3kg sample for pulverising. The 2015 programme RC chips were split to produce the same sized sample. All samples were pulverised to a nominal 90% passing 75-micron sizing and sub sampled for assaying and LOI determination tests. The remaining pulps are stored at an AVL storage facility. The sample preparation techniques are of industry standard and are appropriate for the sample types and proposed assaying methods.
	Quality control procedures adopted for all sub-sampling stages to maximize representivity of samples.	Field duplicates, standards and blanks have been inserted into the sampling stream at a rate of nominally 1:20 for blanks, 1:20 for standards (including internal laboratory), 1:40 for field duplicates, 1:20 for laboratory checks and 1:74 for umpire assays. Also, for the recent XRF sampling at Bureau Veritas (BV), 1 in 20 samples were tested to check for pulp grind size. For 2019 diamond core samples, duplicates were created from the coarse crush at a frequency of 1 in 20 samples at the laboratory and assayed.
	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.	140mm diameter RC hammer was used to collect one metre samples and either HQ or PQ3 sized core was taken from the diamond holes. Given that the mineralisation at the Gabanintha vanadium - titanium deposit is either massive or disseminated magnetite/martite hosted vanadium, which shows good consistency in interpretation between sections and occurs as percentage values in the samples, the sample sizes are considered to be representative. Core is not split for duplicates, but RC samples are split at the collection stage to get representative (2.5-3kg) duplicate samples. The entire core sample and all the RC chips are crushed and /or mixed before splitting to smaller sub-samples for assaying.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	As all of the variables being tested occur as moderate to high percentage values and generally have very low variances (apart from Cr_2O_3), the chosen sample sizes are deemed appropriate. Further studies are required to determine whether the sampling sizes are appropriate for adequate detection of gold mineralisation, however the RC sample size conforms to standard industry techniques for exploration.
	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	Gold assaying represents less than 3 percent of the drill sampling completed at the Project. For this reason, the results are purely exploration results with no current connotation for Mineral Resource estimation for gold. Assaying techniques applied (Fire Assay) are deemed appropriate for full detection of gold present in the samples analysed. All samples for the Project were assayed for the full iron ore suite by XRF (24 elements) and for total LOI by thermo-gravimetric technique. The method used is designed to measure the total amount of each element in the sample. Some 2015 and 2018 RC samples in the oxide profile were also selected for SATMAGAN analysis that is a measure of the amount of total iron that is present as magnetite (or other magnetic iron spinel phases, such as maghemite or kenomagnetite). SATMAGAN analysis was conducted at the BV Laboratory during 2018.

Criteria	JORC Code Explanation	Commentary
		Although the laboratories changed over time for different drilling programmes, the laboratory procedures all appear to be in line with industry standards and appropriate for iron ore deposits, and the commercial laboratories have been industry recognized and certified. Samples are dried at 105°C in gas fired ovens for 18-24 hours before RC samples being split 50:50. One portion is retained for future testing, while the other is then crushed and pulverised. Sub-samples are collected to produce a 66g sample that is used to produce a fused bead for XRF based analysing and reporting. Certified and non-certified Reference Material standards, field duplicates and umpire laboratory analysis are used for quality control. The standards inserted by AVL during the 2015 drill campaign were designed to test the V_2O_5 grades around 1.94%, 0.95% and 0.47%. The internal laboratory standards used have varied grade ranges but do cover these three grades as well. During 2018 and 2019, three Certified Reference Materials (CRMs) were used by AVL as field standards. These covered the V_2O_5 grade ranges around 0.327%, 0.790% and 1.233%. These CRMs are also certified for other relevant major element and oxide values, including Fe, TiO_2, Al_2O_3, SiO_2, Co, Ni and Cu (amongst others). Most of the laboratory standards used show an apparent underestimation of V_2O_5, with the results plotting below the expected value lines, however the results generally fall within ± 5-10% ranges of the expected values. The other elements show no obvious material bias. Standards used by AVL during 2015 generally showed good precision, falling within 3-5% of the mean value in any batch. The standards were not certified but compared with the internal laboratory standards (certified) they appear to show good accuracy as well. Field duplicate results from the 2015 drilling all fall within 10% of their original values. The BV laboratory XRF machine calibrations are checked once per shift using calibration beads made using exact weights and they performed repeat analyses of sample pulps at a rate of 1:20 (5% of all samples). The lab repeats compare very closely with the original analysis for all elements. 2019 PQ diamond core has been assayed, and studies on all results for QAQC sample performance is in progress. Bryah considers that the nature, quality and appropriateness of the assaying and laboratory procedures is at acceptable industry standards.
	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.	The geophysical readings taken for the Project core and RC samples and recorded in the database were magnetic susceptibility. For the 2009 diamond and 2015 RC and diamond drill campaigns this was undertaken using an RT1 hand magnetic susceptibility meter (CorMaGeo/Fugro) with a sensitivity of 1 x 10^{-5} (dimensionless units). The first nine diamond holes (GDH901 – GDH909) were sampled at approximately 0.3m intervals, the last eight (GDH910 – GDH917) at 0.5m intervals and the RC chip bags for every green bagged sample (one metre). During 2018 and 2019 RC and diamond core has been measured using a KT-10 magnetic susceptibility metre, at 1 x 10^{-3} ssi unit. In addition to the handheld magnetic susceptibility described above the 2019 diamond drilling included downhole magnetic susceptibility. This was taken using a Century Geophysical 9622 Magnetic Susceptibility tool. The 9622 downhole tool sensitivity is 20 x 10^{-5} with a resolution of 10cm. 2019 diamond core was analysed using an Olympus Vanta pXRF with a 20 second read time. The unit is calibrated using pulp samples with known head assays from previous drill campaigns by the Company. Standard deviations for each element analysed are being recorded and retained. Elements being analysed are: Mg, Al, Si, P, S, K, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Rb, Sr, Y, Zr, Nb, Mo, Ag, Cd, Sn, Sb, W, Hg, Pb, Bi, Th, and U. Four completed diamond drill holes were down hole surveyed by acoustic televiewer (GDH911, 912, 914 and 915) as a prequel to geotechnical logging during the 2015 drill campaign. A further six holes from the 2018 campaign have been down hole surveyed using acoustic televiewer and optical televiewer (18GEDH001, 002 and 003 and partial surveys of 18GERC005, 008 and 011) for 627 metres of data. Televiewer data was also collected during 2018 on some of the holes drilled in 2015 and prior. The holes surveyed were GRC0019, 0024, 0168, 0169, 0173, 0178, 0180, 0183, 0200 and Na253, Na258 and Na376 for a further 286.75 m of data. All 12 of the 2019 down dip PQ holes have been televiewer surveyed.
	Nature of quality control procedures adopted (e.g., standards, blanks, duplicates, external laboratory checks) and whether acceptable	QAQC results from both the primary and secondary assay laboratories show no material issues with the main variables of interest for the recent assaying programs. Additional QAQC checks and repeat analysis were performed by the commercial laboratory on the high-grade gold values returned in results that are the basis of this ASX announcement.

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	levels of accuracy (i.e., lack of bias) and precision have been established.	
Verification of Sampling and Assaying	The verification of significant intersections by either independent or alternative company personnel.	Diamond drill core photographs have been reviewed for the recorded sample intervals. Tony Standish has visited and worked at the Project site on multiple occasions and the BV core shed and assay laboratories in 2015 and 2018. Whilst on site, the drill hole collars and remaining RC chip samples were inspected. All of the core was inspected in the BV facilities in Perth and selected sections of drill holes were examined in detail in conjunction with the geological logging and assaying. Resource consultants from Trepanier have visited site during 2019 and the AVL core storage facility in Bayswater and reviewed the core trays for select diamond holes during 2018.
	The use of twinned holes.	Two diamond drill holes (GDH915 and GDH917) were drilled to twin the RC drill holes GRC0105 and GRC0162 respectively. The results show excellent reproducibility in both geology and XRF assayed grade for each pair.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	All primary geological data has been collected using paper logs and transferred into Excel spreadsheets and ultimately a SQL Server Database. The data were checked on import. Assay results were returned from the laboratories as electronic data which were imported directly into the SQL Server database. Survey and collar location data were received as electronic data and imported directly to the SQL database. All of the primary data have been collated and imported into a Microsoft SQL Server relational database, keyed on borehole identifiers and assay sample numbers. The database is managed using DataShed™ database management software. The data was verified as it was entered and checked by the database administrator (MRG) and AVL personnel
	Discuss any adjustment to assay data.	No adjustments or calibrations were made to any assay data, apart from resetting below detection limit values to half positive detection values.
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 estimation.	For the 2019 and 2018 drilling, all collars were set out using a handheld GPS or DGPS. After drilling they were surveyed using a Trimble RTK GPS system. The base station accuracy on site was improved during the 2015 survey campaign and a global accuracy improvement was applied to all drill holes in the Company database. For the 2015 drilling, all of the collars were set out using a Trimble RTK GPS system. After completion of drilling all new collars were re-surveyed using the same tool. Historical drill holes were surveyed with RTK GPS and DGPS from 2008 to 2015, using the remaining visible collar location positions. Only five of the early drill holes, drilled prior to 2000 by Intermin, had no obvious collar position when surveyed and a best estimate of their position was used based on planned position data. Downhole surveys were completed for all diamond holes, using gyro surveying equipment, as well as the RC holes drilled in 2015 (from GRC0159). Some RC drill holes from the 2018 campaign do not have gyro survey as the hole closed before the survey could be done. These holes have single shot camera surveys, from which the dip readings were used with an interpreted azimuth (nominal hole setup azimuth). The holes with interpreted azimuth are all less than 120m depth. All other RC holes were given a nominal -60° dip measurement. These older RC holes were almost all 120m or less in depth.
	Specification of the grid system used.	The grid projection used for the Project is MGA_GDA94, Zone 50. A local grid has also been developed for the Project and used for the latest vanadium – titanium Mineral Resource update (March 2020). The grid is a 40-degree rotation in the clockwise direction from MGA north.
	Quality and adequacy of topographic control.	High resolution Digital Elevation Data was captured by Arvista for AVL in June 2018 over the M51/878 tenement area using fixed wing aircraft, with survey captured at 12 cm GSD using an UltraCam camera system operated by Aerometrex. The data has been used to create a high-resolution Digital Elevation Model on a grid spacing of 5m x 5m, which is within 20 cm of all surveyed drill collar heights, once the database collar positions were corrected for the improved ground control survey, that was also used in this topography survey. The vertical accuracy that could be achieved with the 12 cm GSD is +/- 0.10m and the horizontal accuracy is +/-0.24m. 0.5m contour data has also been generated over the mining lease area. High quality orthophotography was also acquired during the survey at 12cm per pixel for the mining lease area, and the imagery shows excellent alignment with the drill collar positions.

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		Outside M51/878, high resolution Digital Elevation Data was supplied by Landgate. The northern two thirds of the elevation data is derived from ADS80 imagery flown September 2014. The data has a spacing of 5M and is the most accurate available. The southern third is film camera derived 2005 10m grid, resampled to match it with the 2014 DEM. Filtering was applied and height changes are generally within 0.5m. Some height errors in the 2005 data may be +/-1.5m when measured against AHD but within the whole area of interest any relative errors will mostly be no more than +/-1m. In 2015 a DGPS survey of hole collars and additional points was taken at the conclusion of the drill program. Trepanier compared the elevations of the drill holes with the supplied DEM surface and found them to be within 1m accuracy. An improved ground control point has been established for the Project by professional surveyors. This accurate ground control point was used during the acquisition of high-quality elevation data. As such, a correction to align previous surveys with the improved ground control was applied to all drill collars from pre-2018 in the Company drill database. Collars that were picked up during 2018 and subsequently are already calibrated against the new ground control.
Data Spacing and Distribution	Data spacing for reporting of Exploration Results.	Gold analysis is sporadic throughout the deposit and in preliminary exploration stages of delineation of mineralisation. No spatial continuity can be deduced from the current dataset and further work is required to determine the size, controls and continuity of any gold mineralisation present at the Project. Relevant to availability of samples for further gold analysis: 2019 RC drilling in Fault Block 50 and 60 (previously 16 and 8 respectively) has drilled out portions of the fault block to 140m spaced lines with 30m drill centres on lines. Some sections are closer together where new drilling bracketed existing drill lines to maintain a minimum 140m spacing between lines. 2019 diamond tail drilling has intersected the HG10 zone at about 60m downdip from the last existing drill hole on select sections that are at 80m spacing. The 2018 RC drilling in Fault Block 30 and 40 (previously 17 and 6 respectively) has infilled areas of 260m spaced drill lines to about 130m spaced drill lines, with holes on 30m centres on each line. The closer spaced drilled areas of the deposit now have approximately 80m to 100m spacing by northing and 25m to 30m spacing by easting. Occasionally these spacings are closer for some pairs of drill holes. Outside of the main area of relatively close spaced drilling (approximately 7015400mN to 7016600mN), the drill hole spacing increases to between 140m and 400m in the northing direction but maintains roughly the same easting separation as the closer spaced drilled area.
	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 spacing and distribution of the gold analysis is sporadic throughout the deposit and in preliminary exploration stages of delineation of mineralisation. No spatial continuity can be deduced from the current dataset and further work is required to determine the size, controls and continuity of any gold mineralisation present at the Project. The degree of geological and grade continuity of the vanadium – titanium mineralisation demonstrated by the data density is sufficient to support the definition of Mineral Resources and the associated classifications applied to the Mineral Resource estimate as defined under the 2012 JORC Code. Variography studies have shown very little variance in the data for most of the estimated variables and primary ranges in the order of several hundred metres.
	Whether sample compositing has been applied.	Gold intercepts have been provided as composites in the HG10 zone where possible and where Au >0.3 g/t Au with no maximum internal waste or minimum interval width applied. All assay results have been composited to one metre lengths before being used in the vanadium – titanium Mineral Resource estimate. This was by far the most common sample interval for the diamond drill hole and RC drill hole data.
Orientation of Data in Relation to Geological Structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	All intervals reported for the gold mineralisation are down hole widths and the true widths of mineralisation are unknown. Further information on the controls and deportment of the gold mineralisation is required before true widths can be calculated. The grid rotation is approximately 45° to 50° magnetic to the west, with the holes dipping approximately 60° to the east. The drill fences are arranged along the average strike of the high-grade mineralised vanadium – titanium horizon, which strikes approximately 310° to 315° magnetic south of a line at 7015000mN and approximately 330° magnetic north of that line. The mineralisation is interpreted to be moderate to steeply dipping, approximately tabular,

Criteria	JORC Code Explanation	Commentary
		with stratiform bedding striking approximately north-south and dipping to the west. The drilling is nearly all conducted perpendicular to the strike of the main mineralisation trend and dipping 60° to the east, producing approximate true thickness sample intervals through the vanadium – titanium mineralisation. The exception is 18 RC pre-collar, diamond tail holes drilled vertically to intersect the deposit at depth, and 12 down-dip diamond holes drilled from surface down-dip in the high-grade domain to gain a metallurgical sample. These holes do not contribute assay data to the estimation. The occurrence of gold mineralisation in cross-cutting faults cannot be considered to be true thickness as the drilling is not perpendicular to the faults.
	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.	Any sampling bias introduced by the drilling orientation and the orientation of the gold mineralised structures is currently unknown. All reported intercepts are down hole and true width of the gold intercepts is unknown. The orientation of drilling with respect to mineralisation is not expected to introduce any sampling bias. Drill holes intersect the mineralisation at an angle of approximately 90 degrees. The 2019 PQ diamond holes are deliberately drilled down dip to maximise the amount of metallurgy sample collected for the pilot study, with all material used for metallurgy purposes (hence not being available for assay). They are not intended to add material to the resource estimation, or to define geological boundaries, though where further control on geological contacts is intercepted, this will be used to add more resolution to the geological model.
Sample Security	The measures taken to ensure sample security.	Samples were collected onsite under supervision of a responsible geologist. The samples were then stored in lidded core trays and closed with straps before being transported by road to the BV core shed in Perth (or other laboratories for the historical data). RC chip samples were transported in bulk bags to the assay laboratory and the remaining green bags are either still at site or stored in Perth. RC and core samples were transported using only registered public transport companies. Sample dispatch sheets were compared against received samples and any discrepancies reported and corrected. Drilling sample residues (pulps) are stored securely in the AVL storage facility and have been readily accessed to provide samples for gold analyses.
Audits or Reviews	The results of any audits or reviews of sampling techniques and data.	No reviews of audits of the gold sampling techniques or data have been undertaken, however the robustness of sample quality work undertaken by AVL support that the sample qualities are high. A review of the sampling techniques and data for the vanadium – titanium deposit was completed by Mining Assets Pty Ltd (MASS) and Schwann Consulting Pty Ltd (Schwann) in 2008 and by CSA in 2011. Neither found any material error. AMC also reviewed the data in the course of preparing a Mineral Resource estimate in 2015. The database has been audited and rebuilt by AVL and MRG in 2015. In 2017 geological data was revised after missing lithological data was sourced.

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.	There is no current native title claim on the proposed mine site or processing plant following a decision by the Federal Court that the Yugunga-Nya native title claim (WC1999/46) was not accepted for registration. A Heritage survey was undertaken prior to commencing each drilling campaign which only located isolated artefacts but no archaeological sites *per se*. Mining Lease M51/878, which was granted by DMIRS in August 2020, covers 70% of the Project. The remainder of the deposit resource area is covered by Mining Lease Application MLA51/890 that overlies a portion of E51/843, P51/3076 and E51/1534 that are held by AVL. AVL has no joint venture, environmental, national park or other ownership agreements on the lease area. A Mineral Rights Agreement was signed in 2017 on the Project tenements. Bryah Resources Limited holds the Mineral Rights for all minerals except V/U/Co/Cr/Ti/Li/Ta/Mn & iron ore which are retained 100% by AVL. AVL owns shares in Bryah and holds a 0.75% Net Smelter Return royalty upon commencement of production by Bryah.
	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.	At the time of reporting, there are no known impediments to obtaining a licence to operate in the area and the tenements are in good standing.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	The Vanadium deposit was identified in the 1960s by Mangore P/L and investigated with shallow drilling, surface sampling and mapping. In 1998, drilling by Intermin Resources confirmed the down dip extent and strike continuation under cover between outcrops of the vanadium bearing horizons. Additional RC and initial diamond drilling was conducted by Greater Pacific NL and then AVL up until 2019. Previous Mineral Resource estimates have been completed for the deposit in 2001 (Mineral Engineering Technical Services Pty Ltd (METS) and Bryan Smith Geosciences Pty Ltd. (BSG)), 2007 (Schwann), 2008 (MASS & Schwann), 2011 (CSA), 2015 (AMC), 2017 (Trepanier) and 2018 (Trepanier). Gold has been explored for regionally by historical workers, but in the trends to the east, west and north of the Project. Very little gold analysis has ever been undertaken on the vanadium deposit and host Lady Alma Gabbro.
Geology	Deposit type, geological setting and style of mineralisation.	The Project at Gabanintha is located approximately 40kms south of Meekatharra in Western Australia and approximately 100kms along strike (north) of the Windimurra Vanadium Mine. The mineralisation is hosted in the same geological unit as Windimurra, which is part of the northern Murchison granite greenstone terrane in the north west Yilgarn Craton. The Project lies within the Gabanintha and Polelle Archaean greenstone sequence oriented approximately NW-SE and is adjacent to the Meekatharra greenstone belt. Locally the mineralisation is massive or bands of disseminated vanadiferous titano-magnetite hosted within the gabbro. The mineralised package dips moderately to steeply to the west and is capped by Archaean acid volcanics and metasediments. The footwall is a talc carbonate altered ultramafic unit.

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		The host sequence is disrupted by late-stage dolerite and granite dykes and occasional east and northeast-southwest trending faults with apparent minor offsets. The mineralisation ranges in thickness from several metres to up to 20 to 30m in thickness. The oxidized and partially oxidised weathering surface extends in parts 40m to 80m below surface and the magnetite in the oxide zone is usually altered to Martite.
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: easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length.	All drill results relevant to the gold analysis have been tabulated in Appendix 1 to this report.
Data aggregation methods	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.	Length weighed averages used for exploration results are reported in spatial context when exploration results are reported. Cutting of high grades was not applied in the reporting of intercepts.
	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.	Intercepts stated in this release are based on a cut-off of 0.5 g/t Au with no internal waste.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalents have been used in this release.
Relationship between mineralisation widths and intercept lengths	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	The relationship between the gold mineralisation orientation and the drill holes is unknown. All intercepts are down hole widths and true widths are unknown. Drill holes intersect the mineralisation at an angle of approximately 90 degrees. Diamond PQ holes in the 2019 program were drilled vertically (-90 degrees). This decreases the angle of intersection with the mineralisation.
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be	See Figures 2, 3, 4 and 5 in the body of this release for location and orientation of the gold mineralisation within the Project.

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	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.	
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.	Comprehensive reporting of all drilling details has been provided in Appendix 1 of this announcement
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.	Metallurgical test work conducted by the company in 2018 identified the presence of sulphide hosted cobalt, nickel and copper, specifically partitioned into the silicate phases of the massive titaniferous vanadiferous iron oxides which make up the vanadium mineralisation at the Project. Subsequent test work has shown the ability to recover a sulphide flotation concentrate containing between 3.8% and 6.3% of combined base metals treating the non-magnetic tailings produced as a result of the magnetic separation of a vanadium iron concentrate from fresh massive magnetite. See ASX: AVL Announcements dated 22 May 2018 and 5 July 2018. Relevant to this testwork, Bryah hold mineral rights for nickel and copper. AVL hold mineral rights for cobalt.
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).	In the coming days, additional archived pulp samples will be selected and submitted for further Au, Pt and Pd analysis by Fire Assay. Results from that work will be interpreted ahead of follow-up drilling programs.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	The long section included in Figure 2 highlights the significant strike extent and numerous faults that could be tested for further gold mineralisation at the Project.