

SHALLOW HIGH-GRADE VANADIUM INTERSECTIONS FROM SOUTHERN INFILL DRILLING

Excellent results include the two highest grade and width intersections at shallow depths reported by AVL to date, above 1.25% V₂O₅ through the consistent massive vanadium titanium horizon

KEY POINTS

- **Results received from 30 Reverse Circulation (RC) drill holes for 2,336 metres, conducted on Inferred Resource areas outside the current PFS mining schedule.**
- **Best drill intersections include:**
 - 22m at 1.25% V₂O₅ from 32m in 19RRC031, including 15m at 1.44% V₂O₅ from 37m
 - 21m at 1.28% V₂O₅ from 39m in 19RRC015, including 14m at 1.42% V₂O₅ from 43m
 - 18m at 1.24% V₂O₅ from 20m in 19RRC026, including 12m at 1.36% V₂O₅ from 22m
 - 13m at 1.33% V₂O₅ from 36m in 19RRC034, including 10m at 1.40% V₂O₅ from 38m
 - 18m at 1.14% V₂O₅ from 45m in 19RRC014, including 5m at 1.27% V₂O₅ from 51m
 - 19m at 1.14% V₂O₅ from 24m in 19RRC029, including 3m at 1.33% V₂O₅ from 36m
- **Shallow weathering and higher grades encountered will assist in the proposed magnetic recovery of high-quality magnetite concentrate.**
- **Strike extensive high-grade zones confirmed throughout the targeted areas.**
- **Programme strongly supporting goal to increase Project life by identifying low-cost, high grade, shallow, high recovery and low risk Resources.**

Australian Vanadium Limited (ASX: AVL, “the Company” or “AVL”) is pleased to announce results from the drill programme completed in December 2019 on the southern strike extensions at The Australian Vanadium Project (“the Project”) which is located south of Meekatharra in Western Australia.

The outstanding results will underpin an updated resource model in the southern areas. The shallow intercepts and the relatively higher magnetic response relating to weathering are extremely encouraging. The new drilling has closed the existing drill spacing from 400m to approximately 140m. The drilling was successful in identifying the target vanadium mineralisation, confirming the impressive continuity of the unique massive-magnetite zones at the Project.

As reported in December¹, thirty RC holes were drilled at the Project for 2,336 metres to further define the high-grade zone (HG 10) within the Pre-Feasibility Study (PFS) case area, (see Table 2 and Table 3 for details). New drilling in this report was focused on the southern blocks of AVL's 11.5km strike length, all currently outside the definition of Mineral Reserves used in the Company's PFS.

Managing Director Vincent Algar comments: "The exceptional high-grade results from this drilling programme in areas not currently in our Reserve base further strengthen our confidence in the deposit. The results have also confirmed the presence of additional, shallow, highly magnetic mineralisation in this area. This opens up potential for a second, and possibly third mining pit to be used in the DFS mining schedule which adds confidence to the strategies we are applying to bring the Project into production."

DRILLING COMPLETED

30 RC holes were drilled at the Project between the 10th and 17th December 2019 for 2,336 metres. The results include the two highest grades reported on a complete intersection through HG zone 10 on the Project.

Table 1 - Drill Hole Results (HG Zone 10 Intersections Only*)

Hole_ID	From (m)	To (m)	Interval	V ₂ O ₅	Fe	TiO ₂	SiO ₂	LOI1000
19RRC014	45	63	18	1.14	45.29	12.94	7.40	2.37
<i>Including</i>	51	56	5	1.27	52.79	14.30	1.91	-0.72
19RRC015	39	60	21	1.28	41.69	15.18	7.95	3.81
<i>Including</i>	43	57	14	1.42	45.00	16.65	4.63	3.18
19RRC016	69	85	16	1.20	48.73	13.52	4.46	1.25
<i>Including</i>	74	83	9	1.28	50.70	14.18	2.78	0.58
19RRC017	73	82	9	1.19	51.37	13.23	3.70	-0.84
19RRC018	33	46	13	1.31	44.13	15.42	7.37	3.63
19RRC019	65	67	2	1.32	42.85	14.80	6.71	4.58
19RRC020	33	42	9	1.21	44.04	13.85	7.57	3.37
19RRC021	64	77	13	1.13	48.12	13.02	5.31	1.14
<i>Including</i>	71	75	4	1.26	53.64	14.28	1.53	-0.67
19RRC022	40	43	3	1.00	38.26	11.71	12.69	4.96
19RRC023	58	67	9	1.15	45.99	13.27	6.44	3.12
<i>Including</i>	62	66	4	1.29	51.21	14.65	1.99	2.19
19RRC024	22	36	14	1.22	48.03	13.94	5.25	2.19

¹ See ASX announcement dated 20/12/19 'AVL Completes Second Successful Drilling Programme'

Hole_ID	From (m)	To (m)	Interval	V ₂ O ₅	Fe	TiO ₂	SiO ₂	LOI1000
<i>Including</i>	26	35	9	1.29	50.84	14.63	2.67	1.50
19RRC024	38	44	6	1.10	44.39	12.10	8.91	3.20
19RRC025	55	65	10	1.21	51.86	13.55	2.98	0.01
19RRC026	20	38	18	1.24	44.42	14.67	6.93	3.45
<i>Including</i>	22	34	12	1.36	48.81	16.04	3.16	2.13
19RRC027	53	56	3	1.19	40.18	14.67	9.02	4.06
19RRC028			0	NSR	NSR	NSR	NSR	NSR
19RRC029	24	43	19	1.14	40.24	13.07	12.49	4.40
<i>Including</i>	36	39	3	1.33	49.52	14.87	4.33	2.15
19RRC030	45	58	13	1.14	48.93	12.60	5.53	2.06
<i>Including</i>	51	54	3	1.27	53.08	13.80	1.65	1.41
19RRC031	32	54	22	1.25	38.70	13.22	11.67	3.24
<i>Including</i>	37	52	15	1.44	44.74	15.39	6.19	3.08
19RRC032	57	75	18	1.09	41.97	11.58	9.64	3.86
<i>Including</i>	64	73	9	1.38	50.55	14.33	2.52	1.64
19RRC033	81	101	20	1.07	44.47	11.84	8.60	2.19
<i>Including</i>	88	97	9	1.31	51.80	13.89	2.39	0.24
19RRC034	36	49	13	1.33	45.00	14.92	6.26	2.78
<i>Including</i>	38	48	10	1.40	47.32	15.18	4.41	2.13
19RRC035	69	85	16	1.22	50.01	13.53	3.71	1.35
<i>Including</i>	73	81	8	1.28	52.48	13.88	1.85	0.53
19RRC036	99	113	14	1.17	51.11	13.17	4.12	-1.21
19RRC037	29	37	8	1.25	49.75	14.10	3.54	2.01
<i>Including</i>	31	37	6	1.27	50.28	14.27	3.16	1.92
19RRC038	97	106	9	1.20	52.08	13.49	2.94	-1.33
19RRC039	12	25	13	1.08	34.85	15.37	9.21	8.74
<i>Including</i>	18	23	5	1.33	44.42	19.14	4.11	3.65
19RRC040	96	112	16	1.05	47.10	12.00	7.31	0.28
19RRC041	83	97	14	1.09	45.34	12.21	8.30	1.23
<i>Including</i>	85	88	3	1.29	52.22	14.63	1.88	-1.25
19RRC042	100	103	3	1.18	49.85	13.13	5.52	-0.29
19RRC043	71	83	12	1.13	49.38	12.37	4.88	1.00
<i>Including</i>	76	81	5	1.27	54.51	13.64	1.43	-1.24

*Drill hole intersections are reported by geological interpretation.

"Including" criteria was 3 metres greater than 1.25% V₂O₅.

The drill programme focused on the southern blocks of AVL's 11.5 km strike length. Blocks 16 and 8 were the focus of drilling which was designed to infill existing drill holes to 140m x 30m drill spacing, with a view to increasing the Mineral Resource category from the current Inferred Resources to

Indicated Resources in the planned Mineral Resource Update. Figure 1 below shows the location of the AVL high-grade southern resources, with the location of the drilling. Table 2 contains a summary of the Inferred Resources targeted with this drilling within the southern fault blocks. Appendix 2 shows the current Global Resources, divided by domain, fault block and Resource category for the Project.

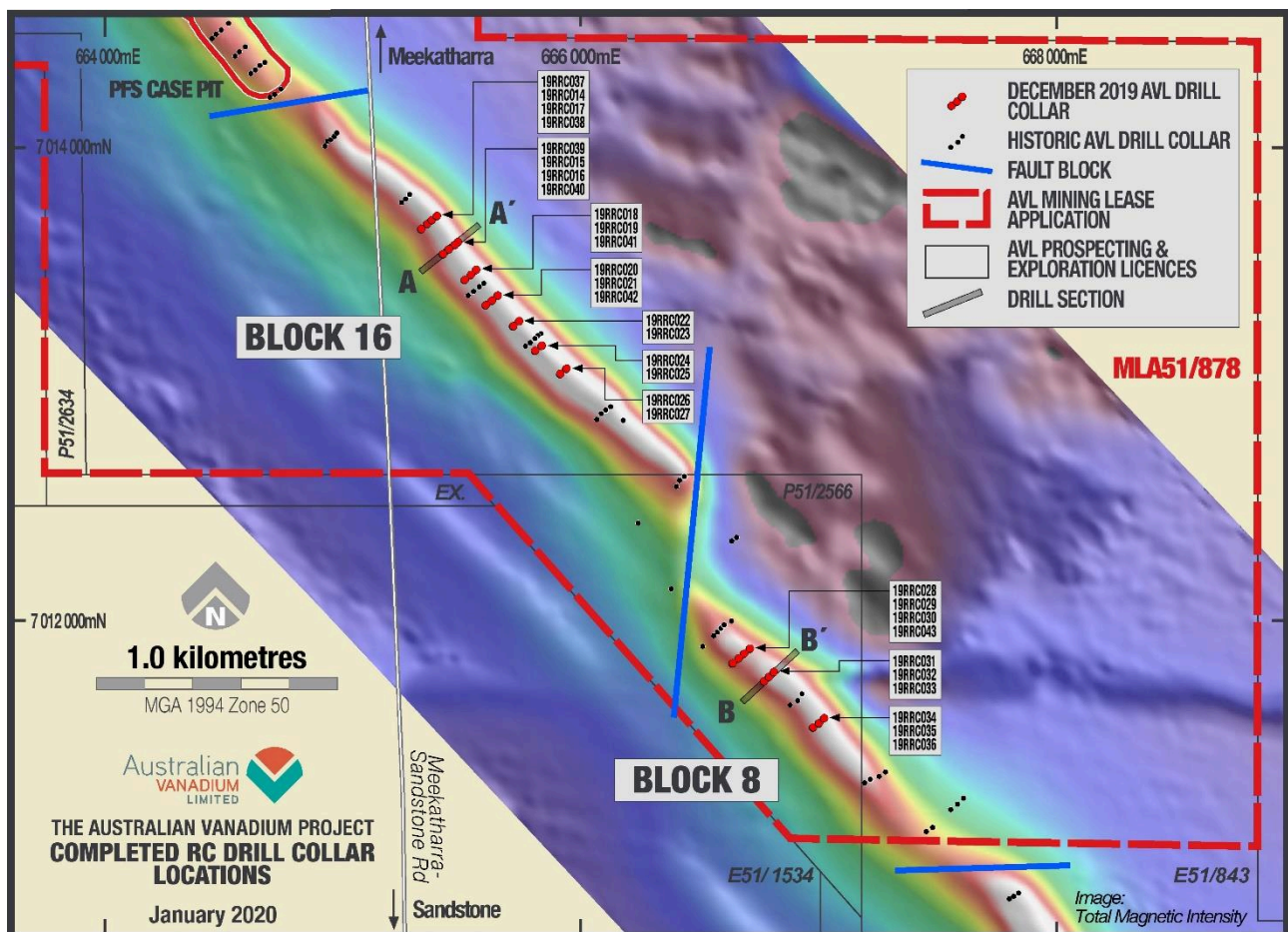


Figure 1 - Completed RC Drill Collar Locations in Southern Blocks

Grade and Intersections

Holes 19RRC015, 19RRC031 and 19RRC034 have core high grade intercepts of 1.4% V_2O_5 or greater (highlighted red in Table 1 above), levels which are close to the V_2O_5 concentrate grade achieved during PFS testing. Post treatment to reduce silica grades should result in a high vanadium grade concentrate product.

Notably, seven of these high-grade intercepts (highlighted red in Table 1 above), at the core of the intercepts are less than 2.00% SiO_2 , which is approaching the quality of silica grades achieved in the concentrate product in the PFS testwork.

Magnetic Recovery

Geological observation during logging of the drill holes and magnetic susceptibility readings recorded on the samples, supported by the magnetic inversion model, all demonstrate a shallower weathering profile in Blocks 16 and 8. This opportunity translates to higher recoveries of magnetic product earlier in the mining schedule.

The high-grade (HG) zone 10 was intersected in 29 of the holes. The drilling also confirmed the shallower dip on block 8 to the south, where the unit dips approximately 40 degrees to the west, instead of between 50 and 60 degrees. This shallower dip might have additional benefits in relation to planning open pit mining, as it would generally result in a lower strip ratio.

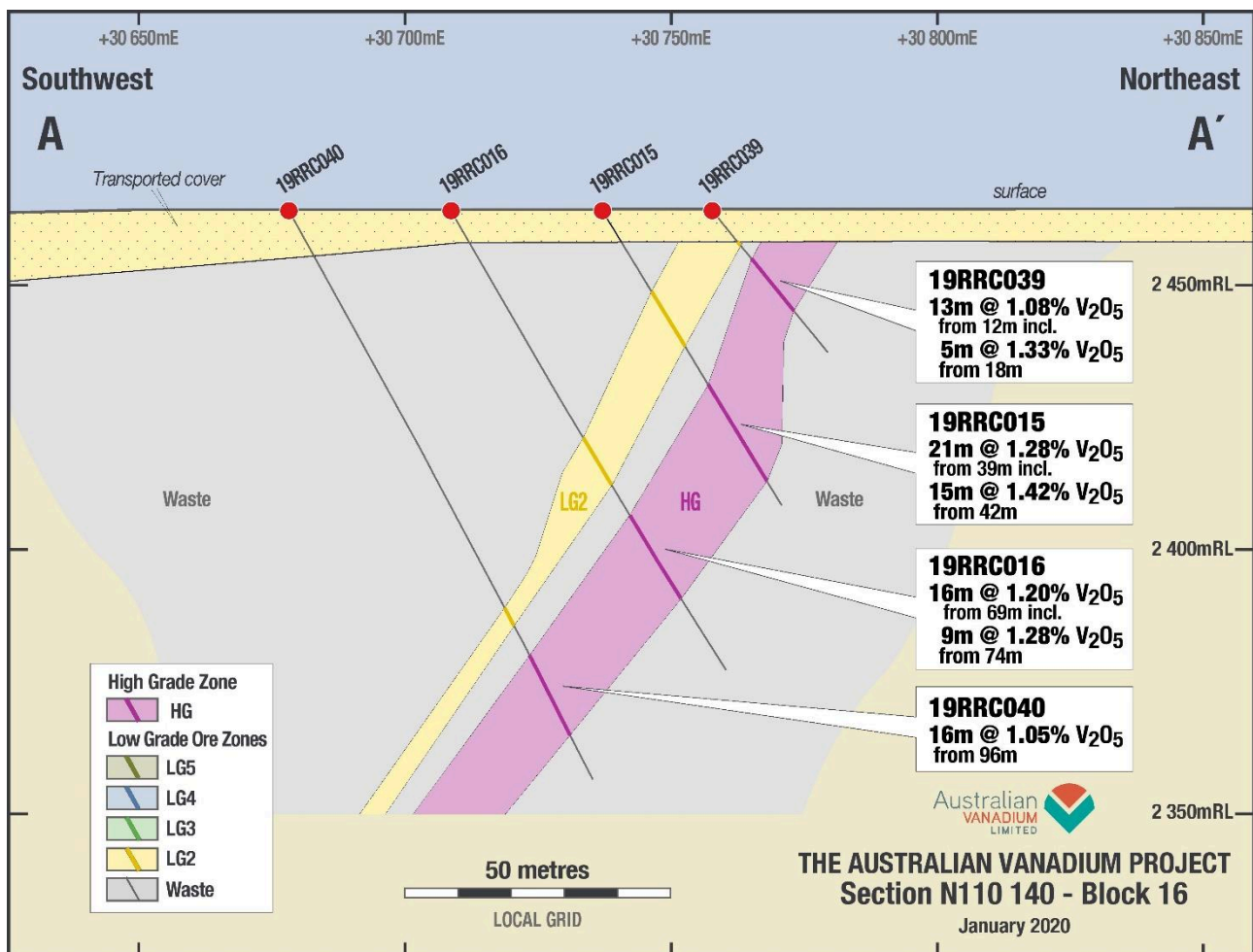


Figure 2 - Sectional Interpretation² N110140 Block 16

² LG zones 3-5 not well defined

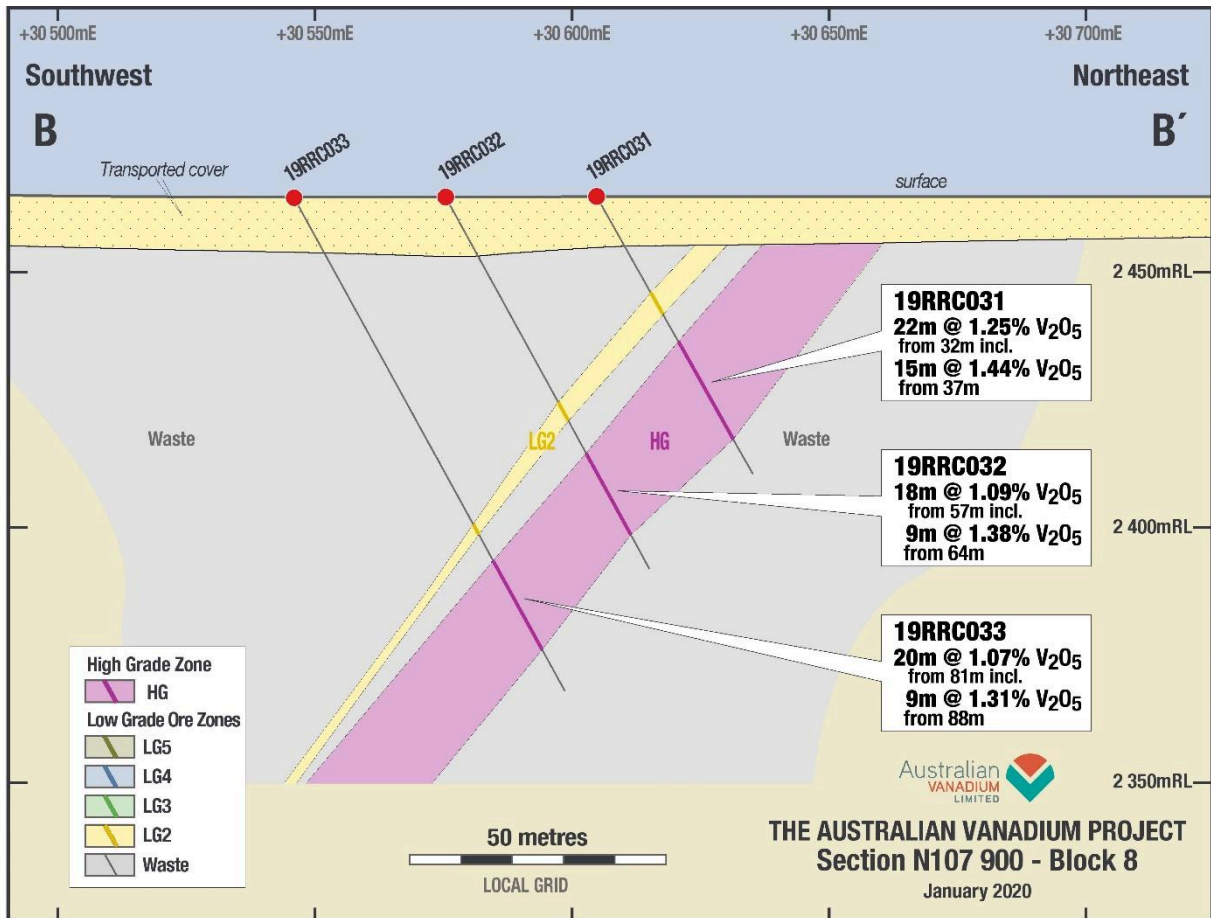


Figure 3 - Sectional Interpretation² N107900 Block 8³

The drill intersections are now being incorporated into the mineralisation interpretation. A Mineral Resource update is currently being completed, including data from:

- RC drilling from late 2018 in fault block 6;
- RC pre-collar/Diamond tail drilling from January - April 2019 in fault blocks 17 and 20;
- The 13 RC holes completed in October 2019; and
- The 30 RC holes just completed.

The Mineral Resource update will incorporate new structural knowledge and an estimation of magnetic susceptibility, which is a proxy for metal recovery during concentration of the ore through a magnetic separation circuit. The new resource estimation will also be completed in a local grid, which will assist in the accuracy of the resource estimation and subsequent optimisations.

³ Section on local grid with MGA94, zone 50 coordinates shown at the southwest and northeast

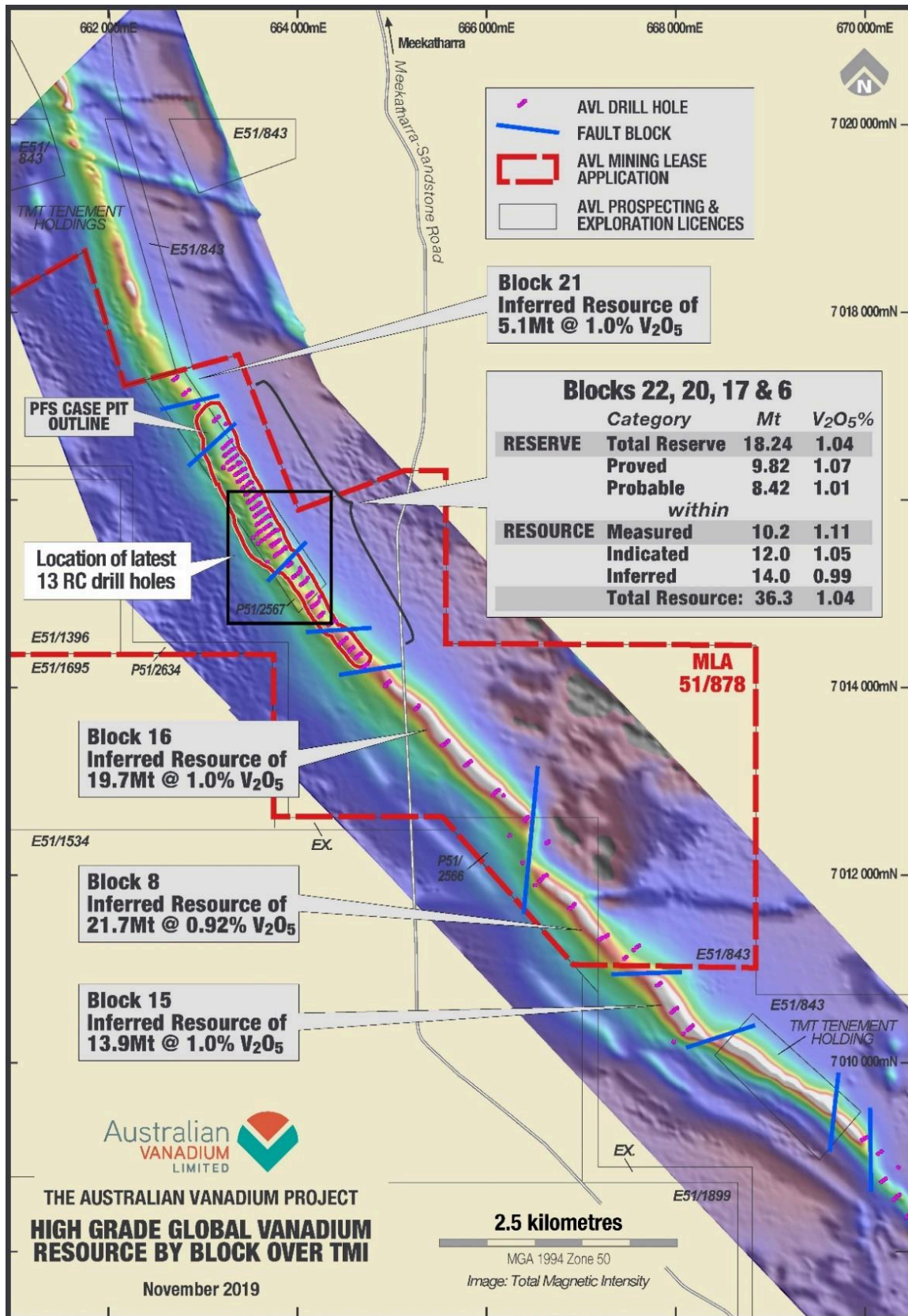


Figure 4 - Total Magnetic Intensity Showing Location of Mineral Resources by Major Fault Block

Total Resources⁴ in the targeted southern blocks are as follows:

Table 2 - Current Inferred Resources in South Fault Blocks

Block	Area	Category	Current Resource Tonnage (Mt)	Current Resource Grades					
				V ₂ O ₅ %	Fe%	TiO ₂ %	SiO ₂ %	Al ₂ O ₃ %	LOI%
16	South of pit in MLA	Inferred	19.7	1.00	42.5	11.0	11.3	7.2	2.3
8	South of pit in MLA	Inferred	21.7	0.92	40.5	11.0	12.7	8.4	3.8
15	South of pit in EL	Inferred	13.9	1.00	45.1	11.3	9.1	6.3	3.7
Sub-total	Southern blocks		55.3	0.97	42.37	11.08	11.30	7.44	3.24

Table 3 - Target Blocks for Resource Definition Drilling to 140m Below Surface

Block	Strike Extent (m)	Current Inferred Resource Tonnage to 140m Below Surface (Mt)	Current Resource Inferred Grade to 140m Below Surface					
			V ₂ O ₅ %	Fe%	TiO ₂ %	SiO ₂ %	Al ₂ O ₃ %	LOI%
8	1,590	16.8	0.94	41.3	11.3	11.7	8.1	3.8
15	850	9.4	0.99	45.0	11.3	9.0	6.3	3.9
16	2,220	12.5	1.01	42.9	11.2	10.9	7.1	2.3
Sum		38.6	0.98	42.7	11.2	10.8	7.3	3.3

The results of the drilling will fulfill the planned objectives, being to significantly increase the potential mine life or scale of the Project to beyond the current 17 years as defined in the PFS⁵ and to enable better informed decisions on the optimal scale and mine life of the Project.

For further information, please contact:

Vincent Algar, Managing Director +61 8 9321 5594

This announcement has been approved in accordance with the Company's published continuous disclosure policy and has been approved by the Board.

⁴ See ASX announcement dated 28/11/18 'Resource Update at Gabanintha Vanadium Deposit Increases Indicated Mineral Resource'

⁵ See ASX announcement dated 19/12/18 'Gabanintha Pre-Feasibility Study and Maiden Ore Reserve'

COMPETENT PERSON STATEMENT – EXPLORATION RESULTS AND EXPLORATION TARGETS

The information in this report that relates to Exploration Results and Exploration Targets is based on and fairly represents information and supporting documentation prepared by Mr Brian Davis (Consultant with Geologica Pty Ltd). Mr Davis is a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons 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. Specifically, Mr Davis consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.

COMPETENT PERSON STATEMENT — MINERAL RESOURCE ESTIMATION

The information in this announcement that relates to Mineral Resources is based on and fairly represents information compiled by Mr Lauritz Barnes, (Consultant with Trepanier Pty Ltd) and Mr Brian Davis (Consultant with Geologica Pty Ltd). Mr Davis is a shareholder of Australian Vanadium Limited. Mr Barnes and Mr Davis are members of the Australasian Institute of Mining and Metallurgy (AusIMM) and Mr Davis is a member of the Australian Institute of Geoscientists, both have sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons 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. Specifically, Mr Barnes is the Competent Person for the estimation and Mr Davis is the Competent Person for the database, geological model and site visits. Mr Barnes and Mr Davis consent to the inclusion in this announcement of the matters based on their information in the form and context in which they appear.

COMPETENT PERSON STATEMENT — ORE RESERVES

The scientific and technical information in this announcement that relates to ore reserves estimates for the Project is based on information compiled by Mr Roselt Croeser, an independent consultant to AVL. Mr Croeser is a member of the Australasian Institute of Mining and Metallurgy. Mr Croeser has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a competent person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Croeser consents to the inclusion in the announcement of the matters related to the ore reserve estimate in the form and context in which it appears.

FORWARD LOOKING STATEMENTS

This announcement 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. Such risks include, but are not limited to Resource risk, metal price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks in the countries and states in which we sell our product to, and government regulation and judicial outcomes. For more detailed discussion of such risks and other factors, see the Company’s Annual Reports, as well as the Company’s other filings. 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 announcement, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

APPENDIX 1

Table 4 - Reported RC Drill Hole Collar, Direction and Purpose Details*

Hole ID	East	North	RL	Depth (m)	Dip	Azimuth
19RRC014	665358	7013697	464	71	-60	50
19RRC015	665448	7013590	464	65	-60	50
19RRC016	665425	7013571	464	101	-60	50
19RRC017	665335	7013678	464	95	-60	50
19RRC018	665541	7013485	464	53	-60	50
19RRC019	665518	7013465	464	83	-60	50
19RRC020	665631	7013378	464	53	-60	50
19RRC021	665608	7013359	464	86	-60	50
19RRC022	665721	7013270	464	53	-60	50
19RRC023	665698	7013251	464	74	-60	50
19RRC024	665814	7013166	464	53	-60	50
19RRC025	665792	7013147	464	71	-60	50
19RRC026	665918	7013071	464	47	-60	50
19RRC027	665895	7013051	464	77	-60	50
19RRC028	666687	7011885	465	52	-60	50
19RRC029	666664	7011865	465	53	-60	50
19RRC030	666641	7011846	465	65	-60	50
19RRC031	666788	7011787	465	62	-60	50
19RRC032	666765	7011768	465	83	-60	50
19RRC033	666742	7011748	465	110	-60	50
19RRC034	666998	7011591	465	59	-60	50
19RRC035	666975	7011572	465	95	-60	50
19RRC036	666952	7011553	465	119	-60	50
19RRC037	665374	7013711	464	59	-50	50
19RRC038	665312	7013659	464	119	-60	50
19RRC039	665463	7013602	464	35	-50	50
19RRC040	665402	7013551	464	122	-60	50
19RRC041	665495	7013446	464	110	-60	50
19RRC042	665585	7013340	464	116	-60	50
19RRC043	666618	7011827	465	95	-60	50

*Coordinate system is MGA94, zone 50.

APPENDIX 2

Table 5 - The Australian Vanadium Project Mineral Resource Estimate*

	Block #	Cat	Mt	V ₂ O ₅ %	Fe %	TiO ₂ %	SiO ₂ %	Al ₂ O ₃ %	LOI %
HG 10	20	Measured	9.2	1.11	42.9	12.7	10.2	7.9	3.8
	22		1.0	1.1	41.7	12.5	10.4	9.3	4.9
		Subtotal	10.2	11.1	42.7	12.6	10.2	8.0	3.9
	17	Indicated	5.5	1.01	43.6	11.5	11.4	7.8	3.7
	20		5.9	1.09	44.4	12.1	9.7	7.2	3.1
	22		0.7	1.09	40.8	12.6	11.4	9.6	5.2
		Subtotal	12.1	1.05	43.8	11.9	10.6	7.6	3.5
	6	Inferred	5.2	0.91	40.1	10.4	14.7	8.4	3.3
	8		21.7	0.92	40.5	11.0	12.7	8.4	3.8
	15		13.9	1.00	45.1	11.3	9.1	6.3	3.7
	16		19.7	1.00	42.5	11.0	11.3	7.2	2.3
	17		1.5	0.95	42.7	10.9	12.7	7.9	3.8
	20		4.7	1.08	43.4	12.0	10.6	7.7	3.4
	21		5.1	1.00	41.7	11.4	12.3	7.8	3.9
	22		2.6	1.02	40.0	12.9	12.1	10.4	5.7
	Subtotal	74.5	0.97	42.1	11.2	11.6	7.6	3.4	
	Sum	HG Total	96.7	1.0	42.4	11.4	11.3	7.7	3.5
LG 2-5	17	Indicated	7.7	0.49	26.1	6.7	26.9	18.0	8.6
	20		18.1	0.51	24.1	7.0	27.8	17.8	8.4
	22		2.9	0.50	23.6	6.8	27.0	17.8	9.9
		Subtotal	28.6	0.5	24.6	6.9	27.5	17.9	8.6
	6	Inferred	4.0	0.46	25.2	6.3	28.1	16.4	7.9
	8		6.4	0.50	23.6	6.6	28.1	18.9	7.9
	15		4.7	0.49	23.5	6.4	29.1	17.1	3.5
	16		18.6	0.52	26.8	6.9	26.5	14.3	5.9
	17		3.0	0.48	25.7	6.7	27.5	17.7	8.5
	20		5.4	0.51	24.7	6.9	27.9	17.4	8.2
	21		5.6	0.45	25.4	6.6	26.7	17.6	9.9
	22		6.2	0.43	24.4	6.5	29.0	17.5	9.5
	Subtotal	53.9	0.49	25.3	6.7	27.5	16.4	7.3	
	Sum	LG Total	82.5	0.49	25.1	6.8	27.5	16.9	7.7
Transported 6-8	8	Inferred	0.9	0.73	33.5	8.4	19.4	12.3	8.2
	15		0.3	0.91	42.9	8.6	13.0	10.1	5.3
	17		0.0	0.53	21.5	7.5	31.7	19.7	8.2
	20		1.1	0.55	16.4	7.4	31.6	24.1	10.9
	21		0.3	0.50	28.3	5.7	24.9	16.6	10.2
	17		0.0	0.59	33.6	6.0	26.6	11.9	5.7
	20		1.6	0.66	29.9	6.6	25.3	15.9	7.4

	22		0.1	0.47	22.6	5.1	27.2	16.6	12.0
	20		0.1	0.50	30.9	5.1	26.3	15.1	7.5
	Sum	Transported Total	4.4	0.65	28.2	7.2	24.7	16.7	8.5
		Measured	10.2	1.1	42.7	12.6	10.2	8.0	3.9
		Indicated	40.7	0.66	30.3	8.3	22.5	14.8	7.1
		Inferred	132.7	0.77	34.8	9.2	18.5	11.5	5.1
		Grand Total	183.6	0.76	34.3	9.2	18.9	12.1	5.5

*As announced on 28 November, 2018 (“Resource Update at Gabanintha Vanadium Deposit Increases Indicated Mineral Resource”) by domain, fault block and resource classification using a nominal 0.4% V₂O₅ wireframed cut-off for low-grade and nominal 0.7% V₂O₅ wireframed cut-off for high-grade (total numbers may not add up due to rounding by fault block).

APPENDIX 3

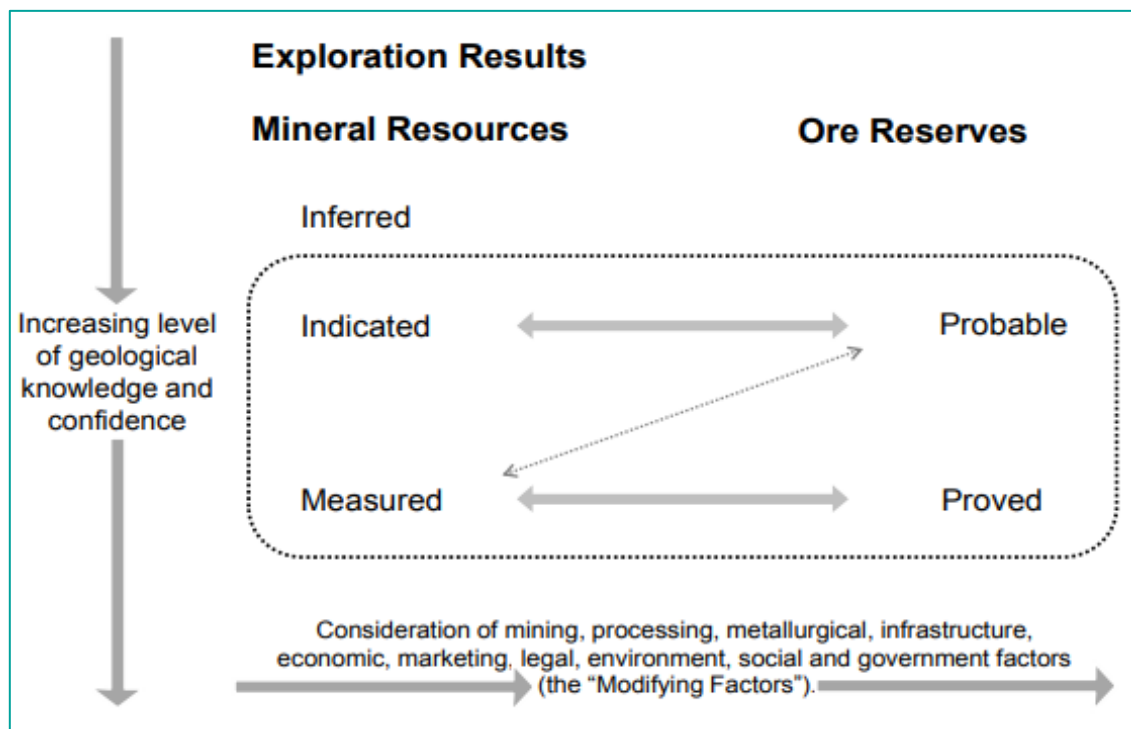


Figure 5 - JORC Code Explanation of Mineral Resources and Ore Reserves

APPENDIX 4

Table 6 - Reserve Statement

Reserve Classification	Tonnes	V ₂ O ₅ %	V ₂ O ₅ Produced t
Proved	9,820,000	1.07	65,000
Probable	8,420,000	1.01	56,000
Total	18,240,000	1.04	121,000

The key inputs or modifying factors include:

- Ore mining recovery of 95%.
- Mining dilution of 5%.
- A nominal plant throughput of 1.45 Mt/a based on a blend of ore types.
- An overall Life of Mine (LOM) V₂O₅ process recovery of 64%. This was based on metallurgical testwork and refinery flowsheet benchmarks.
- Geotechnical parameters based on independent consultant report by Dempers & Seymour.
- CMB costs averaging A\$17.09/t were used for pit optimisation and is based on preliminary plant design and cost estimates by Wood, including expected power and consumable usage and an overhead cost (general and admin) of A\$2.24/t.
- Total mining costs averaging \$3.50/t ore and waste mined (LOM).
- Pit designs based on optimal discounted cash flow pit shell using V₂O₅ revenue price of US\$8/lb.
- Gross royalty of 5.0% including 2.5% WA Government Royalty and additional royalties.

APPENDIX 5

2019 Drilling Progress Update with latest Mineral Resource Estimate dated November 2018 (2012 JORC Code – Table 1)

Section 1 - Sampling Techniques and Data

Criteria	JORC Code Explanation	Commentary
Sampling Techniques	<p>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.</p>	<p>The Australian Vanadium Project deposit was sampled using diamond core and reverse circulation (RC) percussion drilling from surface.</p> <p>During 2019 43 RC holes were drilled; 30 RC holes were drilled for 2236m in the December 2019 drilling on blocks 16 and 8, and 13 RC holes for 1,224m drilled during October 2019.</p> <p>A further 30 PQ diamond drill holes were completed by March 2019, to collect metallurgy sample for a plant pilot study. 12 are 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 are measured by hand-held XRF at 50 cm intervals to inform metallurgy characterisation but will not form part of any resource estimation update unless certified laboratory analysis is completed on a cut portion of the drill core. The 18 diamond tails were cut and a ¼ of the PQ sized core was sent for analysis.</p> <p>At the time of the latest Mineral Resource estimation (November 2018), a total of 250 RC holes and 20 diamond holes (6 of which are diamond tails) were drilled into the deposit. 59 of the 251 holes were either too far north or east of the main mineralisation trend or excised due to being on another tenancy. One section in the southern part of the deposit (holes GRC0156, GRC0074, GRC0037 and GRC0038) was blocked out and excluded from the resource due to what appeared to be an intrusion which affected the mineralised zones in this area. Of the remaining 191 drillholes, 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 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 17,530m at the date of the most recent resource estimate.</p> <p>The initial 17 RC drillholes were drilled by Intermin Resources NL (IRC) in 1998. These holes were not used in the 2015 and 2017 estimates due to very long unequal sample lengths and a different grade profile from subsequent drilling. 31 RC drillholes were drilled by Greater Pacific NL in 2000 and the remaining holes for the project were</p>

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		<p>drilled by Australian Vanadium Ltd (Previously Yellow Rock Resources Ltd) between 2007 and 2018. This drilling includes 20 diamond holes (6 of which are diamond tails) and 76 RC holes, for a total of 20,974m drilled. All of the drilling sampled both high and low-grade material and were sampled for assaying of a typical iron ore suite, including vanadium and titanium plus base metals and sulphur.</p>
	<p>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</p>	<p>PQ core from 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. 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 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.</p>
	<p>Aspects of the determination of mineralisation that are Material to the Public Report.</p>	<p>RC drilling samples were collected at one metre intervals and passed through a cone splitter to obtain a nominal 2-5kg 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.</p> <p>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.</p> <p>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.</p>

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Drilling Techniques	<p>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.).</p>	<p>Diamond drillholes account for 14% of the drill metres used in the Resource Estimate and comprises HQ and PQ3 sized core. RC drilling (generally 135 mm to 140 mm face-sampling hammer) accounts for the remaining 86% 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.</p> <p>No core orientation data has been recorded in the database.</p> <p>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 latest update, and two diamond holes drilled during 2018 were not used as they are for geotechnical purposes and do not intersect the mineralised zones.</p> <p>During 2019 a further 12 PQ diamond holes have been 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 a 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 16 are expected to contribute to the resource and two were used for the metallurgy pilot study programme. A further 43 RC holes using a 140 mm face hammer on a Schramm drill rig have been completed during October and December 2019.</p>
Drill Sample Recovery	<p>Method of recording and assessing core and chip sample recoveries and results assessed.</p>	<p>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.</p> <p>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.</p> <p>An experienced AVL geologist was present during drilling and any issues noticed were immediately rectified.</p> <p>No significant sample recovery issues were encountered in the RC or PQ drilling in 2015.</p> <p>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</p>

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		<p>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.</p>
	<p>Measures taken to maximize sample recovery and ensure representative nature of the samples.</p>	<p>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 drillholes are collared with PVC pipe for the first metres, to ensure the hole stays open and clean from debris.</p>
	<p>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</p>	<p>No relationship between sample recovery and grade has been demonstrated. Two shallow diamond drillholes drilled to twin RC holes have been completed to assess sample bias due to preferential loss/gain of fine/coarse material. Geologica Pty Ltd 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.</p>
<p>Logging</p>	<p>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</p>	<p>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 was logged onto paper and was transferred to a SQL Server drillhole database using DataShedTM 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. 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)</p>

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		<p>having readings taken on the core every 30 cm or so 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 drillhole have been measured for magnetic susceptibility, with calibration on results applied from control sample measurement of pulps from drill programmes from 2015 onwards where measurements of the RC bags already exist.</p> <p>All resource (vs geotechnical) diamond core and RC samples have been logged to a level of detail to support Mineral Resource estimation to and classification to Measured Mineral Resource at best.</p> <p>Geotechnical logging and OTV/ATV data was collected on three diamond drillholes from the 2018 campaign, by consultant company Dempers and Seymour, adding to an existing dataset of geotechnical logging on 8 of the 2015 diamond drillholes and televiewer data for four of the same drillholes. In addition, during 2018 televiewer data was collected on a further 15 RC drillholes from various drill campaigns at the project.</p> <p>PQ diamond drill holes completed during 2019 were geologically and geotechnically logged in detail by the site geologists.</p>
	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.
Sub-Sampling Techniques and Sample Preparation	If core, whether cut or sawn and whether quarter, half or all core taken.	<p>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.</p> <p>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.</p> <p>16 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.</p>

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	<p>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</p>	<p>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. 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.</p>
	<p>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</p>	<p>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 facility. The sample preparation techniques are of industry standard and are appropriate for the sample types and proposed assaying methods.</p>
	<p>Quality control procedures adopted for all sub-sampling stages to maximize representivity of samples.</p>	<p>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 sampling at 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.</p>
	<p>Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling.</p>	<p>To ensure the samples collected are representative of the in-situ material, a 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 Australian Vanadium Project 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, Geologica Pty Ltd considers the sample sizes to be representative. Core is not split for duplicates, but RC samples are split at the collection stage to get representative (2-3kg) duplicate samples. The entire core sample and all the RC chips are crushed and /or mixed before splitting to smaller sub-samples for assaying.</p>

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	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 ₂ O ₃), the chosen sample sizes are deemed appropriate.
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.	<p>All samples for the Australian Vanadium 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 Bureau Veritas (BV) Laboratory during 2018.</p> <p>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</p> <p>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.</p> <p>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 V₂O₅ 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 V₂O₅ 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, TiO₂, Al₂O₃, SiO₂, Co, Ni and Cu (amongst others).</p> <p>Most of the laboratory standards used show an apparent underestimation of V₂O₅, 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.</p> <p>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.</p> <p>Field duplicate results from the 2015 drilling all fall within 10% of their original values.</p>

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		<p>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.</p> <p>2019 PQ diamond core has been assayed, and studies on all results for QAQC sample performance is in progress. Geologica considers that the nature, quality and appropriateness of the assaying and laboratory procedures is at acceptable industry standards.</p>
	<p>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.</p>	<p>The geophysical readings taken for the Australian Vanadium 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 1×10^{-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 1×10^{-3} ssi unit. In addition to the handheld magnetic susceptibility described above the 2019 drilling included downhole magnetic susceptibility. This was taken using a Century Geophysical 9622 Magnetic Susceptibility tool. The 9622 downhole tool sensitivity is 20×10^{-5} with a resolution of 10cm</p> <p>2019 diamond core is being analysed using an Olympus Vanta pXRF with a 20 second read time. The unit has been 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 drillholes 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.</p> <p>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.</p> <p>All 12 of the 2019 down dip PQ holes have been televiewer surveyed.</p>

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	Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.	QAQC results from both the primary and secondary assay laboratories show no material issues with the main variables of interest for the recent assaying programmes.
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. Geologica Pty Ltd Consultant, Brian Davis, visited the Australian Vanadium Project site on multiple occasions and the BV core shed and assay laboratories in 2015 and 2018. Whilst on site, the drillhole collars and remaining RC chip samples were inspected. All of the core was inspected in the BV facilities in Perth and selected sections of drillholes were examined in detail in conjunction with the geological logging and assaying. Resource consultants from Trepanier have visited the company core storage facility in Bayswater and reviewed the core trays for select diamond holes.
	The use of twinned holes.	Two diamond drillholes (GDH915 and GDH917) were drilled to twin the RC drillholes GRC0105 and GRC0162 respectively. The results show excellent reproducibility in both geology and 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.

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<p>Location of Data Points</p>	<p>Accuracy and quality of surveys used to locate drillholes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</p>	<p>The 2019 drill holes have been set out using a real-time Kinematic (RTK) GPS system. At completion of drilling the collar positions were picked up by a professional surveyor with an RTK system.</p> <p>For the 2018 drilling, all collars were set out using a handheld GPS. 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 drillholes in the Company database.</p> <p>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.</p> <p>Historical drill holes were surveyed with RTK GPS and DGPS from 2008 to 2015, using the remaining visible collar location positions where necessary. Only five of the early drillholes, 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.</p> <p>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 drillholes 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.</p>
	<p>Specification of the grid system used.</p>	<p>The grid projection used for the Australian Vanadium Project is MGA_GDA94, Zone 50. All reported coordinates are referenced to this grid.</p>

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	<p>Quality and adequacy of topographic control.</p>	<p>High resolution Digital Elevation Data was captured by Arvista for the Company in June 2018 over the MLA51/878 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 +/- 0.10 m and the horizontal accuracy is +/- 0.24m. 0.5m contour data has also been generated over the mining lease application. High quality orthophotography was also acquired during the survey at 12cm per pixel for the full lease area, and visual examination of the imagery shows excellent alignment with the drill collar positions. The November 2018 Mineral Resource used this surface for topographic control within the Mining Lease Application area (MLA51/878).</p> <p>For the entire 2017 and July 2018 Mineral Resource estimates, and the November 2018 Mineral Resource estimate outside the MLA area, 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.</p> <p>In 2015 a DGPS survey of hole collars and additional points was taken at conclusion of the drill programme. Trepanier compared the elevations the drillholes with the supplied DEM surface and found them to be within 1m accuracy.</p> <p>An improved ground control point has been established at the Australian Vanadium 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 were already calibrated against the new ground control.</p> <p>2019 drill collar locations have been verified with a DGPS in the field (accuracy about 20 cm on the horizontal) with final RTK pick up complete for all but the October 2019 RC drillholes (survey scheduled in the coming fortnight).</p>

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Data Spacing and Distribution	Data spacing for reporting of Exploration Results.	<p>The 2018 RC drilling in Fault Block 17 and 6 has infilled areas of 260 m spaced drill lines to about 130m spaced drill lines, with holes on 30 m centres on each line.</p> <p>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 drillholes. Outside of the main area of relatively close spaced drilling (approximately 7015400mN to 7016600mN), the drillhole spacing increases to several hundred metres in the northing direction but maintains roughly the same easting separation as the closer spaced drilled area.</p>
	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	The degree of geological and grade continuity 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.	All assay results have been composited to one metre lengths before being used in the Mineral Resource estimate. This was by far the most common sample interval for the diamond drillhole and RC drillhole 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.	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 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, with stratiform bedding striking approximately north-south and dipping to the west. The drilling is exclusively conducted perpendicular to the strike of the main mineralisation trend and dipping approximately 60° to the east, producing approximate true thickness sample intervals through the mineralisation.
	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.	<p>The orientation of drilling with respect to mineralisation is not expected to introduce any sampling bias. Drillholes intersect the mineralisation at an angle of approximately 90 degrees.</p> <p>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.</p>

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Sample Security	The measures taken to ensure sample security.	<p>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.</p> <p>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.</p>
Audits or Reviews	The results of any audits or reviews of sampling techniques and data.	<p>A review of the sampling techniques and data 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. Geologica Pty Ltd concludes that the data integrity and consistency of the drillhole database shows sufficient quality to support resource estimation.</p>