

## ASX ANNOUNCEMENT

### Pickle Crow Gold Project, Canada

# Significant discovery of high-grade gold veins points to further increases in 1.7Moz Resource

**The Tyson vein system returns hits of up to 30g/t over 400m strike length and remains open in every direction**

## KEY POINTS

- AuTECO has discovered a significant new vein system at Pickle Crow, named the Tyson veins
- The discovery again vindicates AuTECO's strategy of creating shareholder value through exploration at Pickle Crow
- Mineralisation has now been encountered over a strike of over 400m and to depths exceeding 800m below surface. The Tyson vein system remains open in all directions
- Recent drilling intersections include:
  - 2.8m @ 17.9g/t gold from 578.3m in hole AUDD0173 (50.1 gt\*m)
  - 1.0m @ 30.1g/t gold from 546m in hole AUDD0152 (30.1 gt\*m)
  - 5.5m @ 4.1g/t gold from 566.5m in hole AUDD0173 (22.6 gt\*m)
  - 1.1m @ 10.4 g/t Gold from 665.05m in AUDD0166 W1 (11.4 gt\*m)
- The latest drilling was conducted to follow-up highly promising results from limited exploratory holes drilled earlier in the year. Those results (reported previously<sup>1</sup>) included:
  - 0.5m @ 88.7 g/t Gold from 455m in hole AUDD0184 (44.4 gt\*m)
  - 6.5m @ 6.6 g/t Gold from 838.1m in hole AUDD0166 (42.9 gt\*m)
  - 4.9m @ 7.5 g/t Gold from 483.2m in hole AUDD0152 (36.8 gt\*m)
  - 3.3m @ 8.0 g/t Gold from 836.4m in hole AUDD0166 (26.4 gt\*m)
  - 4.9m @ 4.7 g/t Gold from 514.1m in hole AUDD0178 (23.0 gt\*m)
- Every hole drilled at a 160m spacing has encountered significant mineralisation
- The Tyson discovery points to further Resource growth, with the veins outside the current Resource of 1.7Moz at 8.1g/t<sup>2</sup>
- AuTECO remains fully-funded for its growth strategy, with A\$21.8M in cash at 30 June 2021

<sup>1</sup> Refer to ASX Releases dated 16 June 2021 and 2 August 2021.

<sup>2</sup> Refer to ASX release dated 15 July 2021 for details of the AuTECO Mineral Resource Estimate.

AuTECO Minerals Ltd (AUT.ASX) (**'AuTECO'** or **'the Company'**) is pleased to announce that it has made a significant high-grade gold discovery at its Pickle Crow gold project in Canada.

The Tyson vein system consists of at least three persistent quartz-carbonate-scheelite-gold veins that dip moderately towards the north-west.

Mineralisation within the vein structures has been encountered over an interpreted strike of ~400m and at depths exceeding 800m below surface.

The width of the veins is also highly promising, with 7 of the 10 intersections to date being greater than 2m wide and mineralised zones of up to 6.5m observed.

The initial exploration phase drill pattern has tested a portion of the Tyson veins on a 160m by 160m pattern and all holes have intersected significant gold mineralisation. The Tyson vein system remains open in all directions.

The Tyson vein zone was discovered during drilling for extensions and the development of additional Riedel shear structures east of the main core-mine shear corridor. Based on previous exploration models, the units further east of the Core Mine shear were considered less prospective and hence has been relatively under-explored.

Work in the December quarter will focus on infill drilling and extending the Tyson vein system. The Tyson veins are outside of the recently reported Inferred Resource of 1.7Moz at 8.1g/t and demonstrate the potential for continued growth of the Resource with focused and systematic exploration.

AuTECO Executive Chairman Ray Shorrocks said: *"The discovery of another significant vein system demonstrates yet again the exceptional quality and the immense potential which still remains at Pickle Crow."*

*"This discovery also provides more evidence of how under-explored Pickle Crow is and in particular, the lack of modern exploration conducted there."*

*"We will continue drilling at Tyson to extend the known mineralisation and also infill drill it with the aim of bringing it into the Resource."*

*"With a fifth rig arriving within the next month, we are on track to deliver the current 50,000m drill program on budget and on schedule".*

## ABOUT THE EXPLORATION PROGRAM

Following the success of the previous 45,000 metre drill campaign that delivered a 71% increase in the Inferred Resource to 1.7 million ounces of gold at a grade of 8.1g/t, the board of AuTECO approved an additional 50,000 metres of drilling in June 2021. The dual strategy of driving near-mine Resource growth combined with early-stage exploration targeting will continue to be the focus of the drilling program (Figure 1). A Resource update as at 31 December 2021 is scheduled for release in February 2022.



To date 14,383m of the program have been completed for 36 drill holes. The program was significantly impacted by a directive from the Ontario government to cease drilling activities during periods of high wildfire risk. The result was approximately six weeks of downtime between late July and early September. There are currently four diamond drill rigs active on site. An additional drill rig has been sourced to commence in late October, and it is anticipated that the 50,000-metre program is on track to conclude in Q1 2022 despite the aforementioned delays. Assay turn-around time is now 32 days. Although increased from previous months, this is still ahead of industry benchmarks at present.



**Figure 1:** Current AuTECO strategic work plan and key objectives from July 2021 until the scheduled release of the year end Resource update in December 2021. Please note that timeframes are indicative.

## EXPLORATION AND GEOLOGICAL DETAIL

### Deposit Overview

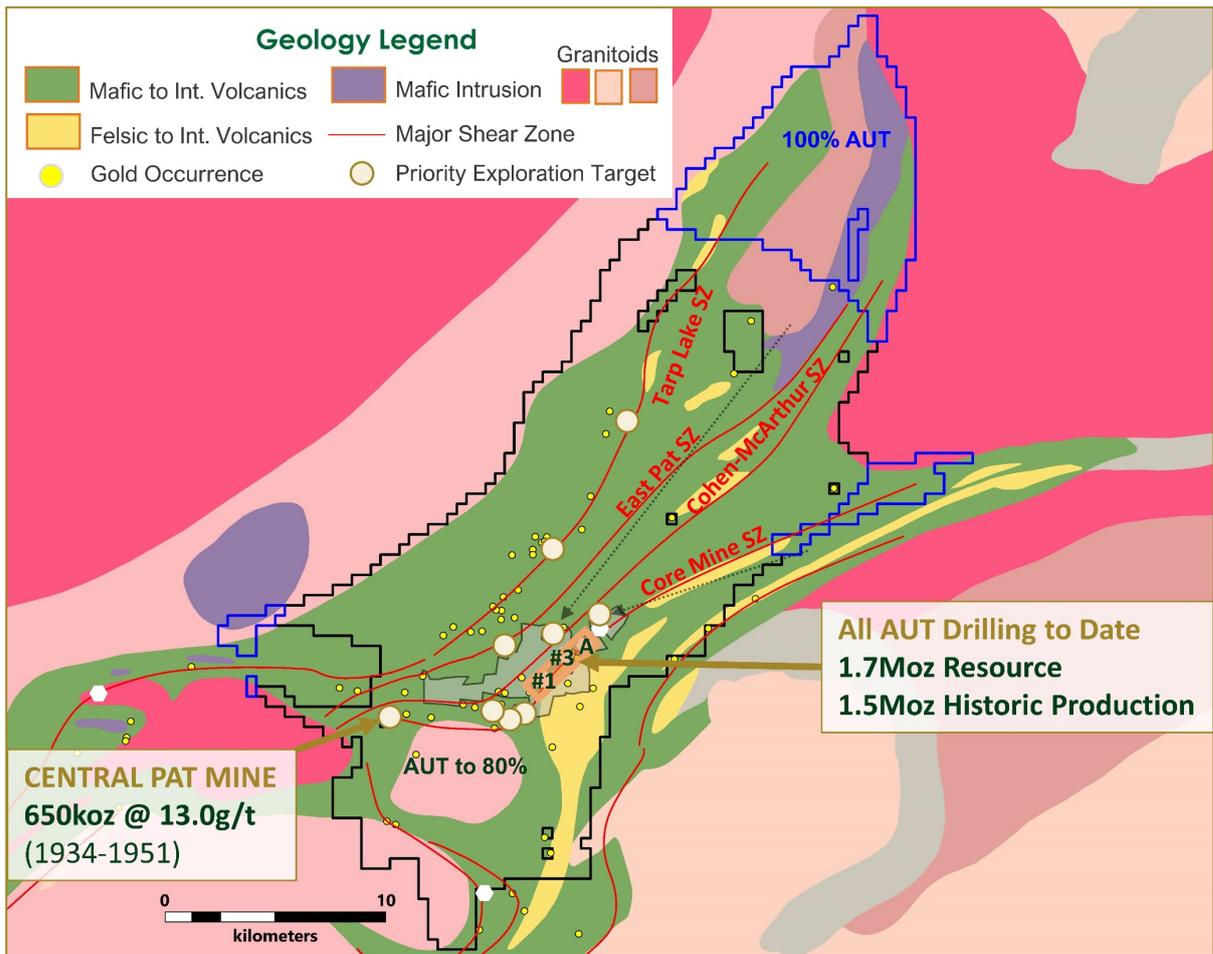
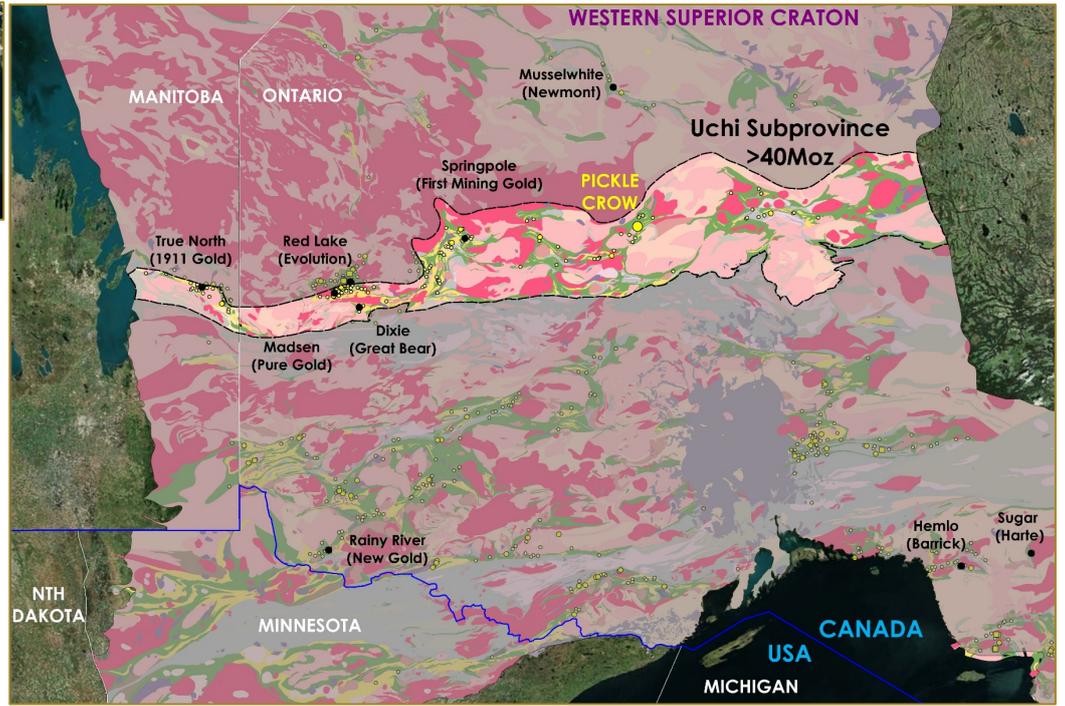
The Pickle Crow deposit is located in the Uchi-Birch sub-province of the Archean aged Superior Craton (Figure 2). AuTECO manages approximately 500 square kilometres of tenure in the northern Pickle Lake greenstone belt (Figure 3).

The Pickle Crow deposit is a typical Mesothermal narrow-vein high grade Archean orogenic gold deposit, with mineralised veins present within local structures formed within a broader Riedel shear zone. Historically between 1935 and 1966, 1.5Moz of gold at a grade of 16.1g/t was mined from more than 10 individual quartz reefs. To date >30 individual veins have been identified proximal to underground shaft infrastructure (Shaft 1, Shaft 3, and Albany Shaft). Exploration results have been grouped based on proximity to the three main shafts.





**Figure 2:** Location of the Pickle Crow deposit within the Uchi sub-province of the Superior Craton, Ontario, Canada



**Figure 3:** Geology and mining claims managed by AuTECO in the northern Pickle Lake greenstone belt. Note all work has been conducted by AuTECO to date is within the orange box.



## Recent Drilling

Drilling activity has focused on 3 primary areas since June:

- Shaft 3 Resource Extension drilling
- Albany – Carey Area
- Area east of Shaft 3 (the newly discovered Tyson veins).

Drilling has been adversely affected by a directive from the Ontario Ministry of Northern Development and Mines that drilling activities cease for a period of 4 weeks due risk posed by unprecedented catastrophic wildfire conditions at the end of the northern summer in the Pickle Lake district. Accounting for rig and crew mobilisation, approximately 6 weeks drilling was lost between late July and early September. AuTECO has secured a commitment for an additional rig to ensure the 50,000-metre program is delivered on time in Q1 of 2022.

Assay results are pending on Albany - Carey and Shaft 3 extensional drilling.

## Tyson Veins Discovery

A plan map showing the collar locations of recent significant intersections and the location of the Tyson vein discovery is presented in Figure 4.

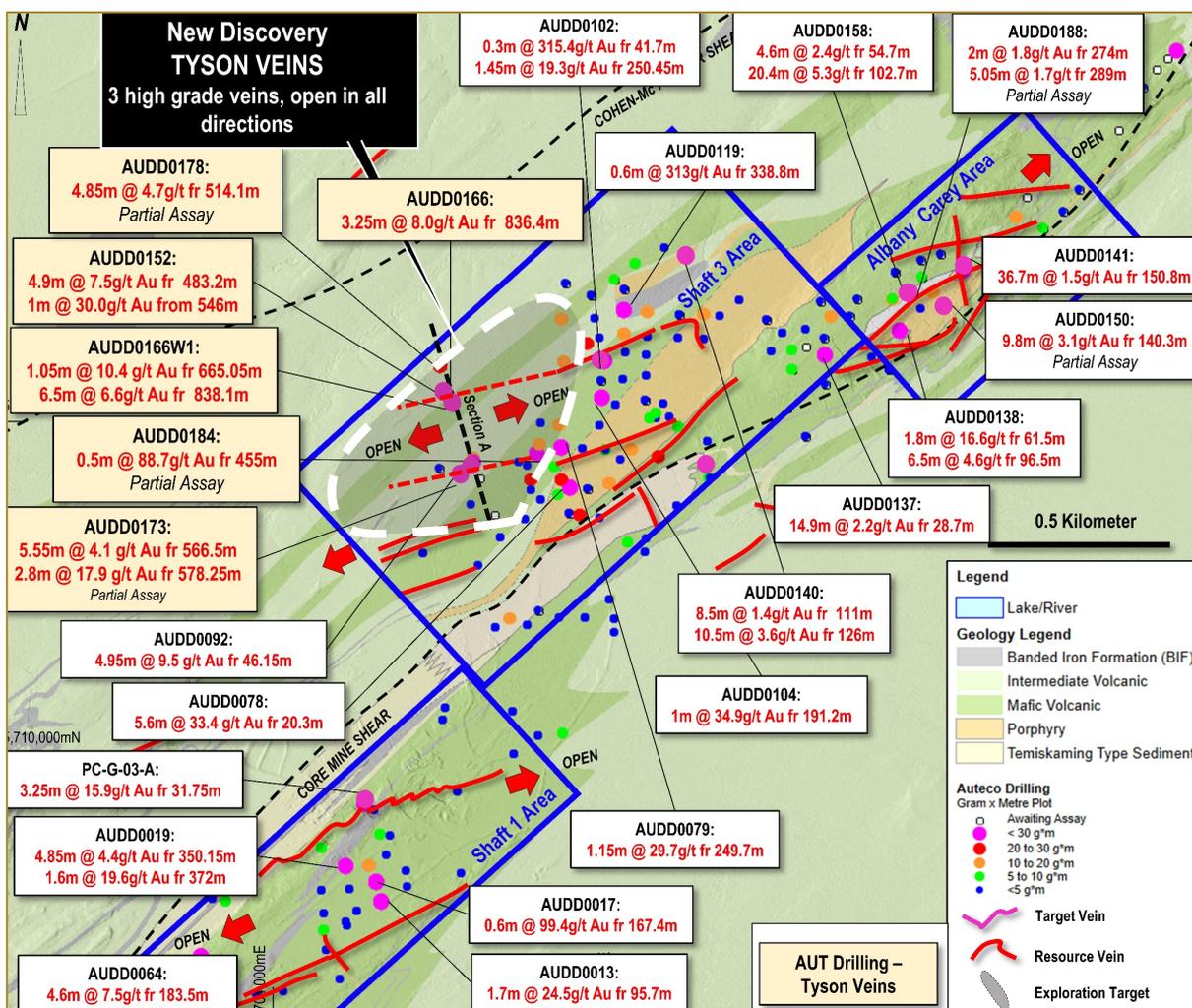


Figure 4: Recent drill intersections from the Tyson vein discovery. See Figure 5 for cross section



The Tyson vein zone was discovered during drill testing for extensions and the development of additional Riedel shear structures east of the main core-mine shear corridor. Based on previous exploration models, the units further east of the Core Mine shear were considered less prospective and hence has been relatively under-explored. Unlike many of the historically mined veins, the Tyson veins lacked surface expression.

Historic exploration models favoured targets within Riedel shears hosted by chemically or rheologically favourable host rock units, such as banded iron or porphyry. Whilst this concept has historically proven successful, recent drill information suggests outliers to the accepted model, with potentially economic mineralisation encountered in perceived less favourable units within the greenstone package, including conglomerate (Figure 5).

This model biased exploration has resulted in large areas of the in-mine environment having limited systematic drill testing, with the discovery of the Tyson veins an example of the potential.

Drilling completed by Auteco in the Tyson target area has confirmed three main quartz-carbonate-scheelite-gold veins that dip moderately towards the north-west. Mineralisation within the vein structures has now been encountered over an interpreted strike of ~400m and at depths exceeding 800m below surface in drillhole AUDD0166. The width of the veins is encouraging, with 7 of the 10 intersections to date being greater than 2m wide. Mineralised zones of up to 6.5m have been observed. Additionally, at depth the Tyson veins are also situated less than 100m from Vein 19, which is one of the highest-grade portions of the existing 1.7 million ounce Inferred Mineral Resource at Pickle Crow.

Drilling is currently on a nominal 160m by 160m drill grid and intersections from this first pass target testing include:

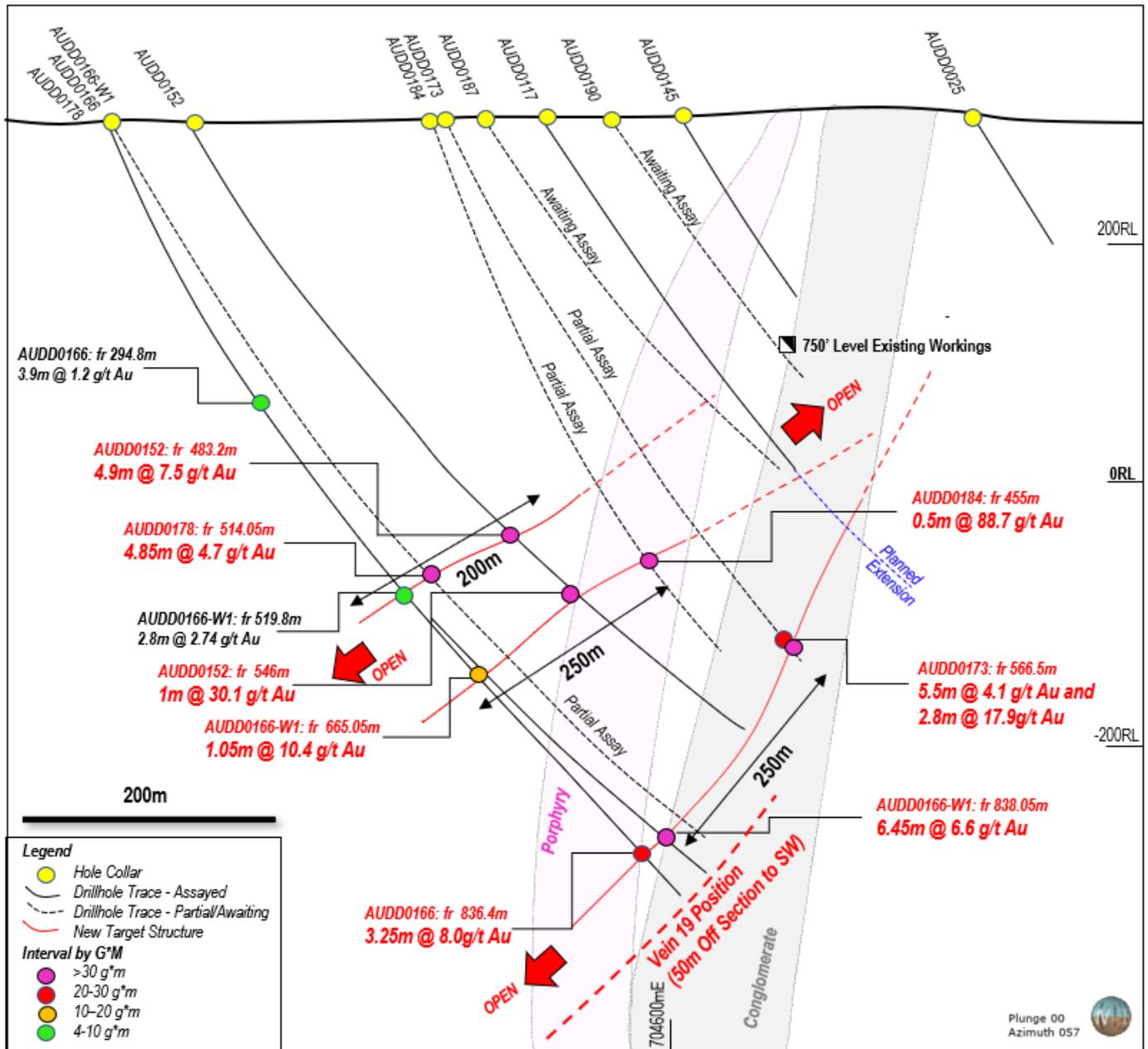
- **4.9m @ 7.5 g/t Gold from 483.2m in AUDD0152**
- **1m @ 30.1 g/t Gold from 546m in AUDD0152**
- **3.3m @ 8.0 g/t Gold from 836.4m in AUDD0166**
- **1.1m @ 10.4 g/t Gold from 665.05m in AUDD0166 – W1**
- **6.5m @ 6.6 g/t Gold from 838.05m in AUDD0166 – W1**
- **0.5m @ 88.7 g/t Gold from 455m in AUDD0184**
- **4.9m @ 4.7 g/t Gold from 514.05m in AUDD0178**
- **5.5m @ 4.1 g/t Gold from 566.5m in AUDD0173**
- **2.8m @ 17.9 g/t Gold from 578.25m in AUDD0173**

An example of mineralisation in the Tyson veins is shown in Figure 6, which shows core photographs of hole AUDD0173.

Please refer to Appendix A – Table 1 for results from this release and historical ASX Releases (28/01/2020, 26/03/2020, 29/06/2020, 01/09/2020, 11/11/2020, 19/01/2021, 07/04/2021, 16/06/2021, 15/07/2021, 02/08/2021).

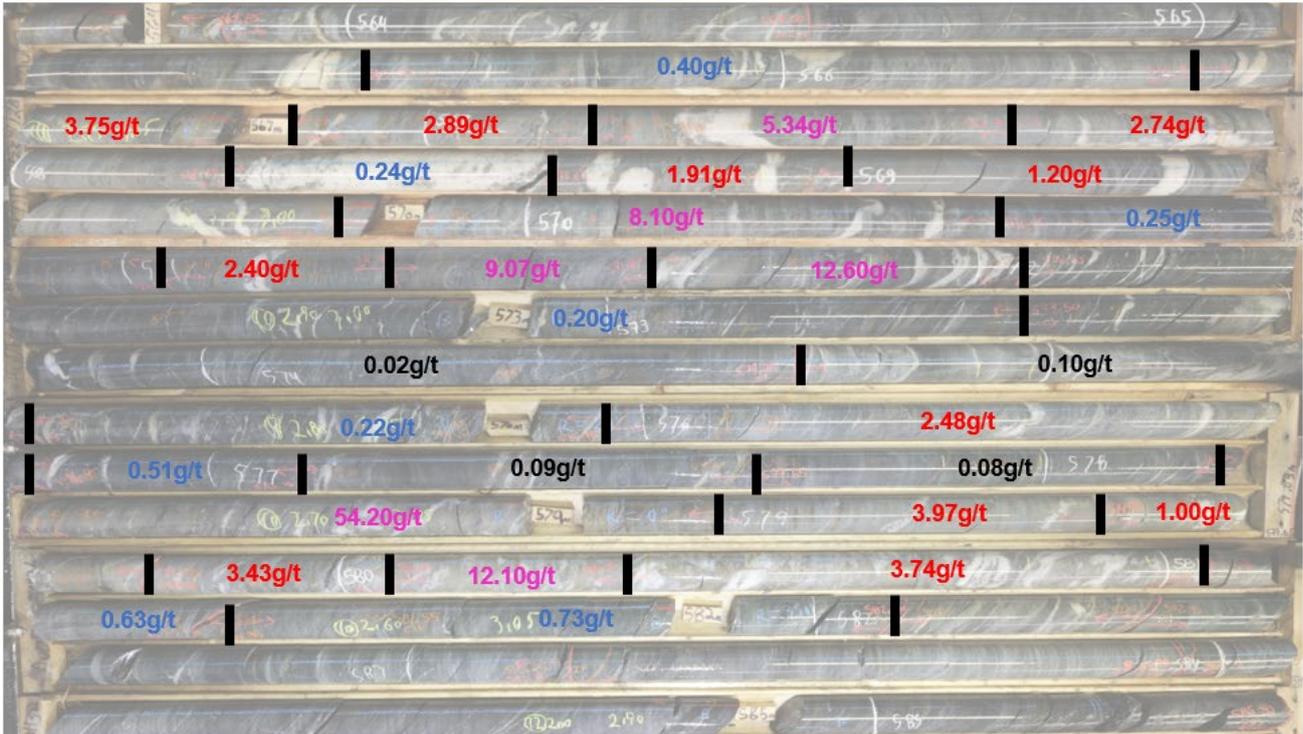
Further assay results for the Tyson veins are anticipated during the December quarter.





**Figure 5:** Cross Section A through the New Tyson Discovery (refer to plan map Figure 4 for location). Showing three NW dipping stacked zones of mineralisation identified on 120-160m drill spacing. Select intervals >4g\*m shown on section along with areas of partial assay. Interpreted orientation is supported by oriented drill core.





**Figure 6:** AUDD0173: 5.5m @ 4.1g/t Gold from 565.5m to 572.05m in New Vein. Plus 2.8m @ 17.9g/t Gold from 578.25m to 581.05m in Vein 19, a 160m step out/up dip extension. Multiple quartz-tourmaline-scheelite-gold veins up to 0.4m wide within sheared, intensely sericite-carbonate altered, conglomerate and metasediments – refer to Appendix A – Table 1 for details.

## FORWARD WORK PLAN

AuTECO intends to continue with a dual-tracked approach to drilling for the remainder of 2021, with a combination of extensional in-mine Resource growth drilling and regional exploration.

It is anticipated that regional exploration will commence in late October, with ~15,000m allocated to test targets on the 500sqkm of regional tenure.

A Resource update is scheduled for completion as at 31 December 2021.

For and on behalf of the Board.



**Mr Ray Shorrocks**  
Executive Chairman  
Auteco Minerals Ltd  
Phone: +61 8 9220 9030

**Media:**  
Paul Armstrong  
Read Corporate  
+61 8 9388 1474



## ABOUT AUTECO MINERALS

Auteco Minerals Ltd (ASX: AUT) is an emerging mineral exploration company focused on advancing high-grade gold resources at the Pickle Crow Gold Project in the world-class Uchi sub-province of Ontario, Canada.

The Pickle Crow Gold Project currently hosts a JORC 2012 Mineral Resource of 1.7 Moz at 8.1 g/t gold, with a 50,000m drilling program underway to expedite Resource growth.

Pickle Crow is one of Canada's highest-grade gold mines – historically producing 1.5 Moz at 16 g/t gold.

The Company also has a joint venture on the Limestone Well Vanadium-Titanium Project in Western Australia.

For further information regarding Auteco Minerals Ltd please visit the ASX platform (ASX:AUT) or the Company's website <https://www.autecominerals.com>

## COMPETENT PERSONS STATEMENT

Certain Exploration Results referred to in this announcement were first reported in accordance with ASX Listing Rule 5.7 in the Company's announcements of 28/01/2020, 26/03/2020, 29/06/2020, 01/09/2020, 11/11/2020, 19/01/2021, 7/04/2021, 16/06/2021, 15/07/2021 and 2/8/2021. Auteco confirms that it is not aware of any new information or data that materially affects the information included in the original announcements. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcements.

The information in this announcement that relates to new Exploration Results is based on and fairly represents information and supporting information compiled by Mr Marcus Harden, who is a Member of the Australasian Institute of Geoscientists. Mr Harden is an employee of the Company and has sufficient experience in the style of mineralisation and type of deposit under consideration and qualifies 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 Harden holds securities in Auteco Minerals Limited and consents to the inclusion of all technical statements based on his information in the form and context in which it appears.

## NOTE

As announced on 15 July 2021, "Resource increases 71% to 1.7Moz", Auteco confirms that it is not aware of any new information or data that materially affects the information included in the original announcement and that all material assumptions and technical parameters underpinning the estimates in the original 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 been materially modified from the original market announcement.

## DISCLAIMER

References to previous ASX announcements should be read in conjunction with this release.



## FORWARD LOOKING INFORMATION

Various statements in this announcement constitute statements relating to intentions, future acts and events. Such statements are generally classified as “forward looking statements” and involve known and unknown risks, uncertainties and other important factors that could cause those future acts, events and circumstances to differ materially from what is presented or implicitly portrayed herein. The Company gives no assurances that the anticipated results, performance or achievements expressed or implied in these forward-looking statements will be achieved.

## APPENDIX A: DRILLING RESULTS

**TABLE 1: Significant Intercept Table – Auteco Drilling**

Cut-off grade of 1 g/t Gold allowing for 1m internal dilution (NSI – No significant Intercept). All cords in UTM NAD 83 z15

Hole No.	Easting	Northing	Elevation	Azimuth	Dip	Drilled Length (m)	From (m)	To (m)	Width (m)	Assay g/t Au	Comment	
AUDD0144	705954	5711484	360	330	60	141.0	13.40	13.80	0.40	1.57		
							100.00	101.00	1.00	1.43		
AUDD0147	705897	5711466	361	330	55	105.0	19.90	20.20	0.30	3.27		
AUDD0148	705210	5711475	337	180	73	582.0	62.45	63.45	1.00	1.07		
							241.90	242.20	0.30	1.39		
							544.75	545.40	0.65	1.04		
AUDD0149	706177	5711593	350	180	55	138.0	8.80	9.45	0.65	3.53		
							40.85	43.35	2.50	4.50		
							80.95	81.95	1.00	1.63		
AUDD0150	705964	5711328	350	200	50	252.0	83.75	84.75	1.00	1.28	Partial Assay	
							126.05	127.00	0.95	1.11		
							140.30	150.10	9.80	3.07		
							190.30	190.70	0.40	9.04		
AUDD0151	706257	5711557	345	145	55	168.0	14.40	15.00	0.60	4.83		
							111.15	111.95	0.80	7.57		
AUDD0152	704504	5711072	338	160	63	765.0	179.55	179.90	0.35	3.89		
							307.50	307.80	0.30	6.47		
							424.45	424.75	0.30	2.27		
							466.05	467.00	0.95	1.89		
							483.20	488.10	4.90	7.50		
							inc:	483.50	485.00	1.50		17.00
							546.00	547.00	1.00	30.10		
559.00	560.00	1.00	4.09									
AUDD0153	706312	5711610	346	145	55	129.0	31.35	31.85	0.50	5.83		
							50.85	51.15	0.30	1.74		
							52.05	53.05	1.00	1.95		



Hole No.	Easting	Northing	Elevation	Azimuth	Dip	Drilled Length (m)	From (m)	To (m)	Width (m)	Assay g/t Au	Comment
AUDD0154	706361	5711673	348	145	55	135.0	15.85	16.85	1.00	1.59	
AUDD0155	705710	5711350	358	200	55	249.0	123.55	124.10	0.55	1.14	
							195.10	196.10	1.00	1.35	
AUDD0156	705965	5711328	350	145	50	225.0	36.80	37.50	0.70	1.69	
							46.50	47.40	0.90	2.12	
							109.65	110.35	0.70	3.49	
							113.00	113.45	0.45	1.09	
AUDD0157	704999	5711407	337	180	76	672.0	120.30	121.00	0.70	1.12	Partial Assay
							129.50	130.50	1.00	1.26	
							320.60	322.60	2.00	3.54	
							481.00	481.30	0.30	3.36	
							483.10	483.40	0.30	4.24	
							540.80	541.10	0.30	1.34	
							629.50	629.80	0.30	1.03	
648.20	649.00	0.80	2.74								
AUDD0159	705690	5711298	358	200	55	291.0	51.45	52.40	0.95	1.10	
							287.25	287.55	0.30	1.62	
AUDD0160	705602	5711341	356	200	55	274.0	31.20	32.55	1.35	2.22	
							93.35	93.75	0.40	3.92	
							256.90	257.80	0.90	2.68	
AUDD0161	704776	5710431	342	175	55	257.0	122.10	122.40	0.30	2.55	
AUDD0162	704694	5710407	342	175	55	222.0	45.90	46.20	0.30	1.80	
							182.20	182.70	0.50	2.13	
							197.60	198.10	0.50	26.20	
AUDD0163	705559	5711210	358	180	55	301.0				NSA	
AUDD0164	704485	5710851	340	160	57	585.0	215.75	216.05	0.30	5.55	Partial Assay
AUDD0165	704504	5711072	338	165	72	108.0				NSA	
AUDD0166	704489	5711151	338	161	66	876.4	217.45	217.75	0.30	2.04	
							294.80	298.70	3.90	1.21	
							399.35	400.10	0.75	1.32	
							512.00	513.00	1.00	1.83	
							515.30	515.60	0.30	1.34	
							518.20	518.60	0.40	1.66	
							577.00	577.85	0.85	1.61	
							617.45	617.80	0.35	1.89	
							836.40	839.65	3.25	8.03	
850.10	850.40	0.30	1.42								
AUDD0166W1	704525	5711039	117	161	54	737.0	297.00	297.30	0.30	4.64	
							299.50	299.80	0.30	2.16	
							369.25	369.90	0.65	1.63	



Hole No.	Easting	Northing	Elevation	Azimuth	Dip	Drilled Length (m)	From (m)	To (m)	Width (m)	Assay g/t Au	Comment
							519.80	522.60	2.80	2.74	
							530.40	531.60	1.20	0.77	
							552.50	554.00	1.50	1.15	
							621.80	623.60	1.80	3.81	
							637.80	638.20	0.40	2.14	
							665.05	666.10	1.05	10.44	
							683.10	684.25	1.15	1.13	
							718.00	718.85	0.85	1.04	
							724.00	724.30	0.30	4.00	
							838.05	844.50	6.45	6.61	
						inc:	838.05	839.80	1.75	21.20	
						inc:	839.20	839.80	0.60	58.60	
							852.90	853.20	0.30	1.23	
AUDD0167	706648	5712082	345	320	50	144.0	88.55	89.65	1.10	0.96	Partial Assay
AUDD0168	705615	5711100	351	180	55	267.0	101.80	102.30	0.50	1.87	
AUDD0169	705146	5711502	338	180	78	621.0	127.50	129.50	2.00	2.69	Partial Assay
							152.60	153.60	1.00	1.91	
							223.60	224.60	1.00	1.13	
							267.85	269.20	1.35	2.62	
							587.20	587.55	0.35	2.27	
AUDD0170	706618	5712060	345	320	50	105.0	NSA				
AUDD0171	705613	5711235	359	180	60	509.0	44.20	44.50	0.30	2.70	
							77.95	78.95	1.00	1.22	
							174.05	175.10	1.05	1.32	
							209.55	210.05	0.50	1.06	
							490.90	491.20	0.30	2.38	
AUDD0172	706585	5712028	345	320	45	111.0	NSA				
AUDD0173	704549	5710828	340	160	62	600.0	213.00	213.35	0.35	4.33	Partial Assay
							219.80	221.95	2.15	2.08	
							229.20	230.00	0.80	1.01	
							256.65	257.05	0.40	2.27	
							266.70	267.30	0.60	2.32	
							284.40	284.80	0.40	2.24	
							466.55	467.30	0.75	1.05	
							566.50	572.05	5.55	4.09	
							575.95	576.80	0.85	2.48	
							578.25	581.05	2.80	17.86	
AUDD0174	706548	5711976	348	180	45	171.0	107.60	107.90	0.30	1.12	Partial Assay
AUDD0175	706477	5711848	348	160	45	87.0					Awaiting Assay
AUDD0176	705559	5711261	357	180	57	411.0	193.80	194.20	0.40	1.14	Partial Assay



Hole No.	Easting	Northing	Elevation	Azimuth	Dip	Drilled Length (m)	From (m)	To (m)	Width (m)	Assay g/t Au	Comment
AUDD0177	706205	5711651	347	180	60	282.0					Awaiting Assay
AUDD0178	704489	5711151	338	160	57	861.0	514.05	518.90	4.85	4.70	Partial Assay
						inc:	514.05	516.10	2.05	10.43	
							590.60	592.00	1.40	1.06	
AUDD0179	704586	5710883	340	160	62	606.0	426.55	427.95	1.40	2.44	Partial Assay
							431.95	432.90	0.95	14.10	
AUDD0180	706178	5711511	347	0	55	348.0					Awaiting Assay
AUDD0181	705755	5711177	351	30	55	509.5	416.40	417.20	0.80	2.56	Partial Assay
AUDD0182	705898	5711415	361	210	55	405.0					Awaiting Assay
AUDD0183	704857	5711397	341	180	56	636.0	78.70	79.80	1.10	1.76	Partial Assay
AUDD0184	704586	5710868	342	160	72	564.0	231.40	231.80	0.40	1.65	Partial Assay
							235.00	236.50	1.50	2.04	
							455.00	455.50	0.50	88.70	
AUDD0185	705899	5711414	360	140	55	312.0	109.00	111.85	2.85	2.19	Partial Assay
AUDD0186	705899	5711323	355	210	55	288.0	140.95	142.55	1.60	2.09	Partial Assay
AUDD0187	704604	5710821	342	160	55	429.0					Awaiting Assay
AUDD0188	705814	5711349	359	210	55	315.0	274.00	276.00	2.00	1.84	Partial Assay
							289.00	294.05	5.05	1.74	
AUDD0189	704857	5711397	341	180	65	699.0	578.40	578.80	0.40	4.40	Partial Assay
AUDD0190	704645	5710713	342	160	55	305.0					Awaiting Assay
AUDD0191	705866	5711371	358	210	65	249.0	35.00	37.00	2.00	1.37	
							59.00	60.00	1.00	1.90	
AUDD0192	705867	5711371	358	140	55	309	41.95	46.65	4.70	1.27	Partial Assay
							82.75	84.30	1.55	6.04	
							90.80	91.80	1.00	1.11	
							**	82.75	100.70	17.95	
AUDD0193	704488	5709717	351	277	77	654					Awaiting Assay
AUDD0194	706152	5711627	355	180	65	351					Awaiting Assay
AUDD0195	704800	5711360	339	180	56	645					Awaiting Assay
AUDD0197	706272	5711683	346	180	55	369					Awaiting Assay
AUDD0198	704083	5710174	343	145	45	252					Awaiting Assay
AUDD0199	704474	5710476	345	160	55	351					Awaiting Assay
AUDD0200	705308	5710898	344	260	70	510					Awaiting Assay
AUDD0201	703640	5709032	352	180	55	249					Awaiting Assay
AUDD0202	704920	5711393	339	180	65	694					Awaiting Assay
AUDD0203	704640	5710000	347	145	65	165					Awaiting Assay



## APPENDIX B - JORC CODE, 2012 EDITION

**Table 1 – JORC Code 2012 Edition**

**Section 1 Sampling Techniques and Data (Criteria in this section apply to all succeeding sections.)**

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> <li>Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul style="list-style-type: none"> <li>Drilling since 2008, quoted with PC- prefix is from PC Gold exploration with NQ diameter (47.6mm) drill core was recovered from drilling. Noramco drilling, CP- prefix is BQ diameter (36.5mm). All other quoted intercepts and the bulk of historical drilling data is of NQ diameter including Auteco drilling subject to this release (prefix AUDD**).</li> <li>The core was sawn in half following a sample cutting line determined by geologists during logging and submitted for analysis on nominal 1m (1ft for historical drillholes) intervals or defined by geological boundaries determined by the logging geologist.</li> <li>Samples from PC Gold holes (PC- prefix) post 2008 were submitted to ALS Chemex in Thunder Bay and North Vancouver for analysis. Samples were prepared for analysis using a jaw crusher which was cleaned with a silica abrasive between samples resulting in 90% of the sample passing through an 8 mesh screen. A split of the crushed sample weighing 1000g was then pulverised to 90% passing a 150 mesh screen. Sample pulps were analysed for gold by Fire Assay using 50g sample charge with atomic absorption spectroscopy (AAS) finish. If the returned assay result was equal to or greater than 5g/t then the sample was reassayed by Fire Assay with a gravimetric finish. Samples from historical diamond drilling programs conducted between 1981 and 2008 were dispatched to a variety of accredited laboratories in Canada for Fire Assay analysis. Historical drill results prior to 1981 are Fire Assay conducted by unknown laboratories (most likely the mine laboratory during the operational life of the Pickle Crow Mine) and with unknown preparation methods and assay charge, however previous operators have duplicated and verified results. Recent sampling by Auteco minerals on drill holes subject to this release (prefix AUDD**) were submitted to AGAT Laboratories, Thunder Bay for analysis. Auteco samples undergo the same preparation and analysis techniques previously used for PC Gold.</li> <li>All samples &gt;10g/t gold and samples collected from PC gold drilling (PC- prefix) suspected of nugget gold were additionally sent for pulp metallica analysis.</li> <li>For a more complete discussion of historical sampling techniques see document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (<a href="http://www.sedar.com">www.sedar.com</a>) for First Mining Inc.</li> </ul>
Drilling techniques	<ul style="list-style-type: none"> <li>Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether</li> </ul>	<ul style="list-style-type: none"> <li>Drilling quoted with PC- prefix is from PC Gold exploration with NQ diameter (47.6mm) drill core was recovered from drilling. Noramco drilling, CP- prefix is BQ diameter (36.5mm). All other drilling is NQ diameter including Auteco drilling subject to this release (prefix AUDD**).</li> </ul>



Criteria	JORC Code explanation	Commentary
Drill sample recovery	<p>core is oriented and if so, by what method, etc).</p> <ul style="list-style-type: none"> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples.</li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>All drilling quoted is NQ diamond core (including Auteco drilling subject to this release -prefix AUDD**) with the exception of Noramco drillholes (CP- prefix). RQD was recorded for all diamond drilling as per industry standard. A review of the available diamond drill core RQD's from the Pickle Crow project (PC- prefix and recently completed Auteco drilling - AUDD* prefix) indicated that nearly all of the holes produced excellent recoveries with an average of &gt;90%. For drilling conducted by other operators recoveries are unknown although reports do not highlight significant core loss.</li> <li>A review of RQD results does not highlight a relationship between sample recovery and grade or highlight any sample bias due to loss of material.</li> </ul>
Logging	<ul style="list-style-type: none"> <li>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.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul style="list-style-type: none"> <li>All PC Gold and Auteco samples (PC- and AUDD* hole prefix) were geologically logged. Lithology, veining, alteration, mineralisation and weathering are all recorded in the geology table of the drill hole database. Other historical drillholes have been similarly logged and records have been digitised from report format.</li> <li>Geological logging of Diamond Core samples is qualitative and descriptive in nature.</li> <li>All holes quoted have been logged in their entirety.</li> </ul>
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <li>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.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul style="list-style-type: none"> <li>All drilling quoted from PC Gold and Auteco exploration (PC-and AUDD* hole prefix) is.NQ diameter (47.6mm) drill core recovered from drilling. All other quoted intercepts are NQ diameter with the exception of Noramco drilling (CP- Prefix) which is BQ (36.5mm) diameter. The core was sawn in half following a sample cutting line determined by geologists during logging and submitted for analysis on nominal 1m (or 1ft) intervals or defined by geological boundaries determined by the logging geologist.</li> <li>This sampling technique is industry standard and deemed appropriate.</li> <li>PC Gold QA/QC protocols include the use of crush duplicates, ¼ core field duplicates, the insertion of certified reference materials (CRM's) including low, medium and high-grade standards and coarse blanks. This was accomplished by inserting the QA/QC samples sequentially in the drill core sample numbering system. One set of the four QA/QC types were inserted every 30 samples consisting of 1 crush duplicate, 1 ¼ split field duplicate, 1 CRM (altering between low, medium and high standard) and 1 blank. This resulted in approximately every seventh sample being a QA/QC sample. Auteco minerals (AUDD* prefix holes) follows the same QA/QC protocols but with CRM's and duplicates inserted every 25 samples. QAQC procedures are not disclosed in previous reporting but results are consistent with visual observations of mineralisation as recorded in the geological logs and qualitative proportions of logged veining and sulphide content. Post-Mining Pickle Crow Property operators employed the usual in-laboratory blanks, standards and duplicate analyses to ensure precision and accuracy of results. Whilst there is no documentation available for earlier</li> </ul>



Criteria	JORC Code explanation	Commentary
		<p>results sample duplicate verification has been conducted.</p> <ul style="list-style-type: none"> <li>• Sample size is deemed industry standard for Orogenic Gold deposits.</li> <li>• For a more complete discussion of historical sampling techniques and sample preparation see document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (<a href="http://www.sedar.com">www.sedar.com</a>) for First Mining Inc.</li> </ul>
<p>Quality of assay data and laboratory tests</p>	<ul style="list-style-type: none"> <li>• The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>• 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.</li> <li>• Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<ul style="list-style-type: none"> <li>• Samples were submitted to ALS Chemex in Thunder Bay and North Vancouver for analysis. Samples were prepared for analysis using a jaw crusher which was cleaned with a silica abrasive between samples resulting in 90% of the sample passing through an 8 mesh screen. A split of the crushed sample weighing 1000g was then pulverised to 90% passing a 150 mesh screen. Sample pulps were analysed for gold by Fire Assay using 50g sample charge with atomic absorption spectroscopy (AAS) finish. If the returned assay result was equal to or greater than 5g/t then the sample was reassayed by Fire Assay with a gravimetric finish. . Samples from historical diamond drilling programs conducted between 1981 and 2008 were dispatched to a variety of accredited laboratories in Canada for Fire Assay analysis. Historical drill results prior to 1981 are Fire Assay conducted by unknown laboratories (most likely the mine laboratory during the operational life of the Pickle Crow Mine) and with unknown preparation methods and assay charge, however previous operators have duplicated and verified results. Recent sampling by Auteco minerals on drill holes subject to this release (prefix AUDD**) were submitted to AGAT Laboratories, Thunder Bay for analysis. Auteco samples undergo the same preparation and analysis techniques previously used for PC Gold.</li> <li>• In addition to the Company QAQC samples (described earlier) included within the batch the laboratory included its own CRM's (Certified Reference Materials), blanks and duplicates.</li> <li>• Sample assay results continue to be evaluated through control charts, log sheets, sample logbook and signed assay certificates to determine the nature of any anomalies or failures and failures were re-assayed at the laboratory. Check assaying was also conducted on 1 in every 20 samples. QAQC protocols are unknown for historical drill programs (without the PC- hole prefix).</li> <li>• QA/QC work is industry standard and acceptable levels of accuracy and precision have been established.</li> <li>• For a more complete discussion of QA/QC techniques and levels of accuracy obtained from historical sampling see document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (<a href="http://www.sedar.com">www.sedar.com</a>) for First Mining Inc.</li> </ul>
<p>Verification of sampling and assaying</p>	<ul style="list-style-type: none"> <li>• The verification of significant intersections by either independent or alternative company personnel.</li> <li>• The use of twinned holes.</li> </ul>	<ul style="list-style-type: none"> <li>• Historical significant intersections quoted have been verified by Independent Geological Consultants Micon International Limited. For more details see document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario,</li> </ul>



Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<p>Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (<a href="http://www.sedar.com">www.sedar.com</a>) for First Mining Inc.</p> <ul style="list-style-type: none"> <li>There are no twinned holes in the dataset but a comparison of the results of different drilling generations showed that results were comparable. In addition previous operators have duplicated and verified results by re-sampling historical core. For more details see document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (<a href="http://www.sedar.com">www.sedar.com</a>) for First Mining Inc.</li> <li>For PC Gold drilling (PC- prefix), once all logging data was completed, core marked up, logging and sampling data was entered directly into the Gems Logger program (an MS Access-based database and stored on the onsite server. At approximately weekly intervals the server onsite was synchronised with the main server in Thunder Bay. Only one individual was responsible for synchronising the field and office databases. Auteco records new drilling data in Excel spreadsheet format synchronized with the Auteco server in Perth, Australia.</li> <li>No adjustments were made to assay data but the procedure to determine which gold assay to enter into the database is as follows. If a pulp metallic assay was performed it was used. If a pulp metallic assay was not performed, then a gravimetric assay was used. If a gravimetric assay was not performed, then the AAS assay was used. If re-assays were performed then the first analysis was used unless a QA/QC investigation proved that the first assay was suspect, in which case the second analysis was then used. For more details of historical procedures see document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (<a href="http://www.sedar.com">www.sedar.com</a>) for First Mining Inc. For all drilling not conducted by PC Gold (without the PC- hole prefix) no adjustments were made to the data.</li> </ul>
Location of data points	<ul style="list-style-type: none"> <li>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.</li> <li>Specification of the grid system used.</li> <li>Quality and adequacy of topographic control.</li> </ul>	<ul style="list-style-type: none"> <li>Upon completion of PC Gold drillholes collars (PC Gold prefix) were surveyed by third party contractors Delta Surveying and J.D.Barnes of Thunder Bay to with +/- 1m using an SX Blue. For all other drilling hole collars were converted from local grids or digitised from georeferenced maps. Where possible these historical surface drillholes have been re-located, surveyed and verified in the field. Drillhole locations are also recorded by the Ontario Ministry of Northern Development and Mines in freely available GIS datasets. Auteco drilling (AUDD* prefix) has been surveyed with a hand-held GPS to an accuracy of less than 3m.</li> <li>A variety of down hole survey tools have been used on the property. All holes were surveyed at 50m intervals while drilling using an EZY Shot magnetic compass based tool supplied by the drillers. In conjunction with this, all holes were surveyed after completion with a non-magnetic down-hole instrument. A variety of tools were trialed including Maxibore tool provided by Reflex Instruments, a Deviflex tool operated by TECH</li> </ul>



Criteria	JORC Code explanation	Commentary
		<p>Directional services and an SPT North Seeking Gyro. For Auteco drilling subject to this release down hole surveys have been conducted by a REFLEX North Seeking Gyro. For further historical details of survey reproducibility and tools used please refer to document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (www.sedar.com) for First Mining Inc. For all drilling not conducted by PC Gold (lacking the PC- prefix) surveys were conducted during drilling with hole orientation recorded by the geologist in the field. Downhole surveys of dip are recorded by azimuths away from the collar are generally lacking.</p> <ul style="list-style-type: none"> <li>• All location data is in UTM grid (NAD83 Zone 15) except where noted.</li> <li>• Topographic Control for PC Gold and Auteco drilling (PC- and AUDD* prefix) is from a DTM created generated from a LIDAR survey completed in 2008 and are to an accuracy of &lt;1m and verified by drill collar surveys. For all other collar data elevation was estimated from contours provided from SRTM. Topographic control for underground drillhole collars has been digitised from level plans or converted from mine grids. All surface collars have now been projected to a DTM generated from a LIDAR survey completed in 2008 and are to an accuracy of &lt;1m.</li> </ul>
Data spacing and distribution	<ul style="list-style-type: none"> <li>• Data spacing for reporting of Exploration Results.</li> <li>• 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.</li> <li>• Whether sample compositing has been applied.</li> </ul>	<ul style="list-style-type: none"> <li>• Due to the nature of mineralisation the hole spacing is highly variable and of a progressive exploration in nature.</li> <li>• Data spacing is considered sufficient to establish geological and grade continuities for mineral resource estimation at the Inferred Category</li> <li>• No sample compositing was applied.</li> </ul>
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> <li>• Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>• 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.</li> </ul>	<ul style="list-style-type: none"> <li>• Drill hole orientations were designed to test perpendicular or sub-perpendicular to the orientation of the intersected mineralisation. Drilling was typically oriented perpendicular to the trend of geophysical anomalism and the mapped strike and dip of observed mineralisation on surface and elsewhere in the project area.</li> <li>• Due to the density of drilling and the orientation of drilling perpendicular to mineralized bodies there is limited bias introduced by drillhole orientation.</li> </ul>
Sample security	<ul style="list-style-type: none"> <li>• The measures taken to ensure sample security.</li> </ul>	<ul style="list-style-type: none"> <li>• For PC Gold and Auteco drilling (PC- and AUDD* prefix), once the core samples are cut, bagged and sealed with zip ties, ten samples are put into rice bags which are sealed and secured with numbered security tags. Once samples arrive at the laboratory the security tags and corresponding samples were verified against onsite logs. Prior to shipment samples are stored in a locked building onsite. Site is always occupied, and no samples are left at the project during field breaks. For all other drillholes the measures taken to ensure sample security are unknown.</li> </ul>



Criteria	JORC Code explanation	Commentary
Audits or reviews	<ul style="list-style-type: none"> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	<ul style="list-style-type: none"> <li>An audit and review of sampling techniques and data was conducted as part of NI-43-101 resource estimation by Independent Consultants Micon International in 2018. Please refer to document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (www.sedar.com) for First Mining Inc.</li> <li>An additional audit and review of sampling techniques and data was conducted by Cube Consulting as part of the Resource Estimation subject to this release and consisted of an audit of QAQC data from previous operators PC Gold Inc. (2011-2017).</li> </ul>

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

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul style="list-style-type: none"> <li>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.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a license to operate in the area.</li> </ul>	<ul style="list-style-type: none"> <li>The mineral concessions of the Pickle Crow project consist of 106 patented mining claims covering 1,712ha and 88 contiguous, unpatented claims covering approximately 14,048ha. Of the 106 patented claims 98 (the Pickle Crow Lease) are held in the name of Teck Cominco Limited (Teck) and 8 are held in the name of PC Gold. The unpatented claims are held in the name of PC gold. PC Gold has a lease on the 98 patented claims held by Teck which expires in 2067. These leasehold claims are subject to two net smelter return (NSR) royalties totaling 1.25%. The other 8 patented claims (the Crowshore Patents), plus certain unpatented claims are subject to NSR royalties ranging from 2% to 3%. A full list of tenements along with details of relevant NSR's as they pertain to individual properties is given in Auteco ASX releases dated: 28/01/2020 and 17/02/2020. An additional 600 claims were staked by Auteco subsidiary, Revel Resource (JV) Ltd. and are subject to the terms of the Earn-In-Arrangement.</li> <li>Auteco has entered into a binding term sheet agreement to acquire up to 80% of the Pickle Crow Gold Project from First Mining. A payment of C\$50,000 has been made to First Mining. Subject to the completion of a formal agreement, the consideration for acquisition of the assets are as follows: Upon signing a formal agreement: A further C\$50,000 and 25,000,000 Shares in the capital of Auteco at a deemed issue price of A\$0.008 per share. Stage 1 Earn-In (51%): Spending C\$5,000,000 over three years comprising: Spending C\$750,000 within a 12-month period ('Expenditure Payment 1'); and Spending C\$4,250,000 within a 24-month period after Expenditure Payment 1 is satisfied; and Subject to shareholder approval by Auteco, issuing to First Mining 100,000,000 Shares in Auteco. (together 'Stage 1 earn in'). Stage 2 Earn-In (a further 19%): Expending exploration expenditure in the 24-month period commencing on the date that Auteco satisfies the Stage 1 Earn-in of C\$5,000,000 ('Expenditure Payment 3'); and Within 90 days of completing expenditure Payment 3, making a cash payment to Seller in the amount of C\$1,000,000 ('Expenditure Payment 4'), (together the 'Stage 2 Earn</li> </ul>



Criteria	JORC Code explanation	Commentary
		<p>In'). Also, Buy In: May buy a further 10% interest by paying C\$3,000,000 to First Mining; and a 2% Net Smelter Return granted after the Stage 2 Earn-In. Further details are included in ASX release (17/02/2020).</p> <ul style="list-style-type: none"> <li>For a more complete discussion of 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 relating to the Pickle Crow Project please refer to document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (<a href="http://www.sedar.com">www.sedar.com</a>) for First Mining Inc.</li> </ul>
<p>Exploration done by other parties</p>	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul style="list-style-type: none"> <li>The first government survey of the area was performed by William McInnes of the Geological Survey of Canada (GSC) along the Crow River from 1903 to 1905. Prospecting in the Pickle Lake area commenced in 1926. In 1927, Lois Cohen of Haileybury formed a prospecting group and early that winter sent Alex and Murdock Mosher in to stake the first claims (December 1927) on what ultimately became the Central Patricia Gold Mines property. These claims were optioned by F.M Connell and Associates in August 1928 and Central Patricia Gold Mines Limited was incorporated on 19 February, 1929. Diamond drilling commenced at Central Patricia in February 1929 and production in March 1930. The Central Patricia discovery paved the way from exploration in the region which led to the discovery and initial drilling (1929) of the first Pickle Crow orebody the No.1 Vein by Northern Aerial Mineral Exploration Limited, a company set up in 1928 by J.E. (Jack) Hammell. In 1929 gold was also discovered by Albany River Miners Ltd. (Albany River) at the No.16 vein on the Albany River claims to the east of the then Pickle Crow property. Northern Aerial was acquired by Pickle Crow Gold Mines Limited (PCGM) in 1934 with Jack Hammell continuing as president. Production from the Pickle Crow mine began on 17 April, 1935. Albany river sank the Albany shaft to a depth of 190m between 1933 and 1938 and completed extensive underground development. Winoga Patricia Gold Mines was created in 1936 and drilled 73 surface diamond drill holes on a pie-shaped property located between PCGM's holdings and the Albany River Mines ground to the east. A mine shaft was subsequently sunk on the property in 1938. That same year, PCGM took over ownership of both Albany River Mines and Winoga Patricia Gold Mines through a new company called Albany River Gold Mines Ltd. It is believed that the Winoga Patricia Gold Mines shaft later became the No.3 Shaft of the Pickle Crow operation. The Cohen-MacArthur zone, located 2km to the north of the developing Pickle Crow mine, was discovered in 1933. A total of 14 surface diamond holes were drilled at Cohen-MacArthur in the winter of 1936. This property was optioned by PCGM in 1938, With the acquisition of the Cohen-MacArthur claims, PCGM became one of the largest land holders in the Pickle Lake area. The GSC completed a regional synthesis of the Pickle Crow Greenstone belt during this period as well. Ground and</li> </ul>



Criteria	JORC Code explanation	Commentary
		<p>airborne geophysical surveys have been completed over all or parts of the Pickle Crow property at various times during its early history. A dip-needle survey completed in 1936 on the Pickle Crow property was useful in tracing out the bands of the iron formation. A detailed magnetic survey was carried out over the property by Teck (or its predecessor companies) around 1960. The property then underwent a series of ownerships until it became wholly owned by Teck in 1971. The property then sat dormant until 1973 when Pickle Crow Exploration Ltd. Reviewed the economics of reopening the mine. In 1978, a merger between Pickle Crow Explorations Ltd. And four other companies saw Teck's ownership reduced to 44.6% and a new exploration company called Highland-Crow Resources Ltd. Highland Crow went on to option the property to Galant Gold Mines Limited in 1979. Gallant performed a VLF_EM geophysical survey and drilled 47 surface diamond drill holes for 7,356m. The only known soil geochemical survey done on the Pickle Crow property was completed for Gallant in 1983. Soil values ranged from 10 to 12,000ppb with the high values attributed to mine tailings and cultural anomalies. In 1983 the property returned to Highland-Crow. Noramco Mining Corp. bought Highland-Crow in 1988. Between 1985 and 1987 Highland-Crow completed line-cutting, magnetometer and IP, geophysical surveying, geological mapping, surface trenching, diamond drilling and environmental baseline studies. Noramco drilled surface exploration holes, completed geophysical surveys and commenced dewatering of the No.1 shaft. Noramco drilled 286 surface diamond drill holes for 46,189m and 79 underground holes for 9,341m. Noramco also commissioned Historic (non-compliant) Resource Estimates. In 1994 Noramco changed its name to Quest Capital. Quest assigned its interest to Pickle Crow Resources Inc. A total of 4 surface diamond drill holes for 2,287m were completed. Quest then sold its interest to Wolfden Resource Inc who entered into an option agreement with Jonpol Explorations Ltd. Who drilled 18 surface diamond holes for 2,173.5m. Wolfden also entered into a surface mining agreement with Cantera Mining Limited in 2000. Canterra commenced building a 225tpd gravity mill on site in 2002 but was placed into receivership in 2004. In 2006 Wolfden transferred Pickle Crow to Premier Gold Mines Ltd. Before the property was sold to PC Gold in 2007. PC Gold then explored the property completing 184 holes for 62,968m by 2011 and 173 holes for 35,840.4m from 2011 to 2014 before commissioning an NI-43-101 compliant Resource Estimate. For further details please refer to document 'Updated Mineral Resource Estimate for the Pickle Crow Property, Patricia Mining Division, Northwestern Ontario, Canada' NI-43-101 dated 15 June 2018 and available from System for Electronic Document Analysis and Retrieval (<a href="http://www.sedar.com">www.sedar.com</a>) for First Mining Inc.</p>
Geology	<ul style="list-style-type: none"> <li>• Deposit type, geological setting and style of mineralisation.</li> </ul>	<ul style="list-style-type: none"> <li>• The Pickle Crow Gold Deposit is considered to be an Archean low-sulphide gold-quartz vein type deposit, also known as shear-hosted gold, Archean quartz-carbonate vein gold deposits, Archean lode gold, Archean mesothermal gold deposits or simply orogenic gold. The deposit occurs primarily within mafic volcanics and banded iron formation (BIF) units in the Pickle Crow</li> </ul>



Criteria	JORC Code explanation	Commentary
Drill hole Information	<ul style="list-style-type: none"> <li>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:               <ul style="list-style-type: none"> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in meters) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> </ul> </li> <li>If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.</li> </ul>	<p>assemblage of the Pickle Lake Greenstone belt in the Uchi Lake Subprovince of the Superior Craton of the Canadian Shield.</p> <ul style="list-style-type: none"> <li>Refer to Appendix A in ASX release 28/01/2020 and 26/03/2020 as well as the current release for drill hole information for all reported drill holes for this JORC 2012 Table 1 and in accordance with ASX listing rule 5.7.2.</li> </ul>
Data aggregation methods	<ul style="list-style-type: none"> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>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.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	<ul style="list-style-type: none"> <li>All drill hole intersections are reported above a lower cut-off grade of 0.5g/t Gold or 1g/t as indicated, with no upper cut off grade has been applied. A maximum of 1m internal waste was allowed. Tabulated results are presented in ASX announcements 28/01/2020, 26/03/2020, 29/06/2020, 01/09/2020, 11/11/2020, 19/01/2021, 07/04/2021, 16/06/2021, 15/07/2021, 02/08/2021 and Appendix A of this release)</li> <li>Metal equivalent values are not used</li> </ul>
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').</li> </ul>	<ul style="list-style-type: none"> <li>All intersections reported in the body of this release are down hole</li> <li>The majority of the drill holes are drilled as close to orthogonal to the plane of the mineralized lodes as possible. A number of drill holes have intersected the mineralisation at high angles.</li> <li>Only down hole lengths are reported.</li> </ul>
Diagrams	<ul style="list-style-type: none"> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	<ul style="list-style-type: none"> <li>Maps and sections are included in the body of this release as deemed appropriate by the competent person.</li> </ul>
Balanced reporting	<ul style="list-style-type: none"> <li>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low</li> </ul>	<ul style="list-style-type: none"> <li>Any significant higher-grade zones in historical drilling quoted in this release have been reported in ASX</li> </ul>



Criteria	JORC Code explanation	Commentary
	<p>and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.</p>	<p>announcements 28/01/2020, 26/03/2020 and Appendix A of this release)</p> <ul style="list-style-type: none"> <li>All results above 0.5g/t lower cut-off or 1g/t quoted in this release have been reported in ASX announcements 28/01/2020, 26/03/2020, 29/06/2020, 01/09/2020, 11/11/2020, 19/01/2021, 07/04/2021, 16/06/2021, 15/07/2021, 02/08/2021 and Appendix A of this release)</li> </ul>
<p>Other substantive exploration data</p>	<ul style="list-style-type: none"> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>Appropriate plans are included in the body of this release.</li> </ul>
<p>Further work</p>	<ul style="list-style-type: none"> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul style="list-style-type: none"> <li>Auteco Minerals Limited is currently conducting drill testing of additional lodes as well as step out and infill drilling of existing lodes to further enhance the resources quoted in this release. More information is presented in the body of this report.</li> <li>Diagrams in the main body of this release show areas of possible resource extension on existing lodes. The company continues to identify and assess multiple other target areas within the property boundary for additional resources.</li> </ul>

