# SANDSTONE GOLD PROJECT





## **Disclaimer & Competent Persons Statement**

#### **Disclaimer Notice**

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#### **Competent Persons' Statement**

The information in this Report that relates to Exploration Targets and Alto Metals Ltd's Exploration Results is based on information compiled by Mr Dermot Ryan, who is an employee of Xserv Pty Ltd and a Director and security holder of the Company. Mr Ryan is a Fellow of the Australasian Institute of Mining and Metallurgy and a Fellow of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Ryan consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

Mineral Resource estimates for Lord Nelson and Lord Henry contained in this presentation were estimated in 2016/17 by Snowden Mining Industry Consultants and are reported pursuant to the 2012 Edition of the JORC Code.

All historic exploration results and mineral resources referred to in this Report were previously reported by Troy Resources NL pursuant to 2004 Edition of the JORC Code, and are based on information reported in the 2011 Troy Resources Limited Annual Report (TRY:ASX release 21 October 2011) and the Snowden Mining Industry Consultants, June 2007, National Instrument 43-101 Technical Report-Sandstone (TRY: ASX release 10 December 2007) which also details drilling and sampling methods, quality control and analytical methods. The Company is not aware of any new information or data that materially affects the information provided in the 2011 Troy Resources Annual Report and the Snowden Mining Industry Consultants 2007 Report, and considers that all of the previous assumptions and technical parameters underpinning the estimates and drill results in the previous announcements have not materially changed.

The resource estimates reported by Troy are consistent with the 2004 JORC Code guidelines and are not reported in accordance with the JORC 2012 Code and a Competent Person has not completed sufficient work to accurately classify the 2004 estimates as Mineral Resources under the JORC 2012 Code. Indeed it is uncertain if, following further exploration, the 2004 estimates will be able to be reported as Mineral Resources in accordance with the JORC 2012 Code. The Company is in the process of upgrading the historical published Mineral Resources to JORC 2012 as a matter of priority. There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the conversion of Inferred Mineral Resources to Indicated Mineral Resources.

# **Corporate Overview**

### Directors, Senior Management & Consultants

Share Price 9 November 2017	\$0.08
Shares on Issue	163.5M
Performance Shares/Rights	37.75M
Market Capitalisation	~\$13.1M
Cash at 30 Sept 2017	\$0.77M
+ Placement Funds Oct 2017	\$1.60M

Dr Jingbin Wang	Non-executive Chairman
	Geologist + 25 years global experience
Dermot Ryan	Managing Director
	Exploration geologist 40 years experience
Terry Wheeler	Non-executive Director
	Minerals Chemist- Businessman 50 years experience
Stephen Stone	Non-executive Director
	Mine geologist + 35 years experience
Sam Middlemas	CFO & Company Secretary
	Accountant +20 years experience
Dr Changshun Jia	Chief Geologist
•	Geologist +15 years experience
<b>Dr David Groves</b>	Chairman of Alto External Research Committee

Emeritus Professor of Geology- UWA- retired

#### **Alto Top 6 Holders**

Rank	Name	Units	%
1	WINDSONG VALLEY PTY LTD <wheeler a="" c="" family=""></wheeler>	21,788,531	13.33
2	SINOTECH (HONG KONG) CORPORATION LIMITED	15,900,000	9.72
3	ENTERPRISE METALS LTD	12,000,000	7.34
4	MR STEPHEN STONE <the a="" c="" pearlstone=""></the>	8,787,500	5.37
5	CROWNLUXE INVESTMENT LTD	7,500,000	4.59
6	MR DERMOT MICHAEL RYAN + MRS VIVIENNE ELEANOR RYAN	4,669,237	2.85

#### Alto Metals share price – 12 Months



## Vision & Strategy

#### **VISION**

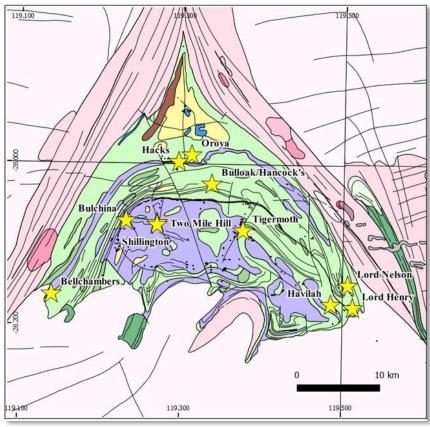
Discover GOLD resources & reserves to support profitable mining operations at Sandstone

#### **STRATEGY**

- ➤ Short term, delineate 1 million ounces of gold in shallow deposits (Vanguard, Indomitable, Lord Nelson, Lord Henry, etc) that can be economically mined, leading to sustainable exploration-driven growth.
- Opportunity for 50:50 "profit share" deals.
- Medium to longer term, discover 5 million ounces in high-grade gold deposits, which will serve as the foundation of major mining operations.

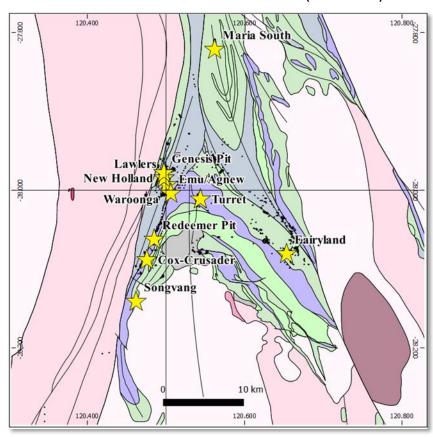


Sandstone: 1.3Moz Au mined 2017 Resources: 0.24Moz (JORC 2012)



Sandstone: Shallow drilling, open pits to feed oxide mill Average depth of RAB drilling ~36m Average depth of RC drilling ~41m

Agnew: 7.5Moz Au mined 2017 Resources: 2.4Moz (JORC 2012)



Agnew: Deep drilling to 1,000m depth after shallow oxide pits exhausted

## **Business Plan**

"....Alto is taking a minerals system approach to discover major gold deposits in the 800km<sup>2</sup> underexplored Sandstone Greenstone Belt "

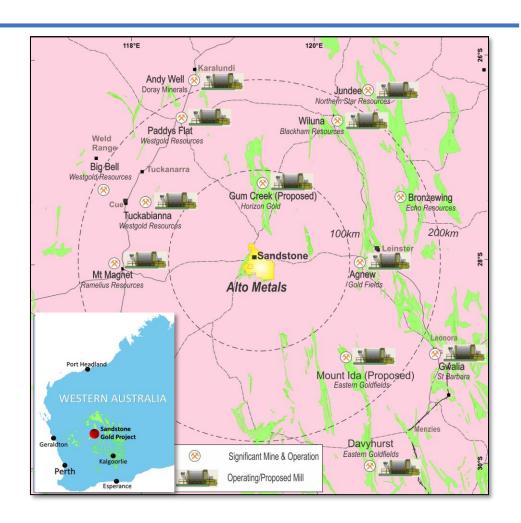
"the oxide gold deposits are the geochemical anomalies that lead to the discovery of the million ounce deposits at depth......"



## **Sandstone Gold Project**

### "Well located and surrounded by mills..."

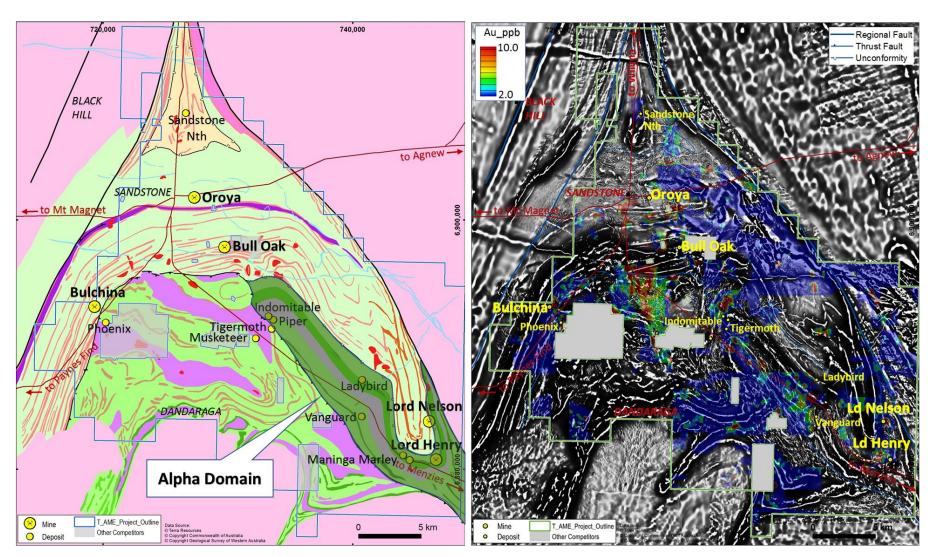
- Gold mining commenced 1890's
- Sandstone town established 1907
- Herald Resources 1994 -1999
- Troy Resources 1999 2010
- ~1.3 Moz oxide gold mined to date
- Restricted by oxide plant so negligible hard rock treated near surface or at depth
- Alto acquired Sandstone June 2016, tenements granted Sept 2016
- Alto drilling commenced Dec 2016



### **Alto 2017 Drilling to date:**

- AC:120 holes for 10,989m av. ~92m [SAC001-SAC120]
- RC: 53 holes for 8,075m av.~152m [SRC001-SRC053] Assays awaited for SRC038 SRC053

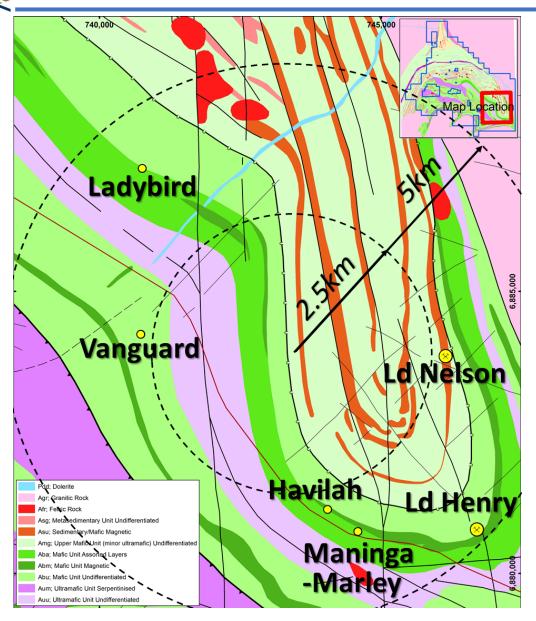
## Initial Exploration Focus - Alpha Domain - Mafic Volcanics



Geological Interpretation & Alpha Domain

Gold Soil Anomalies over Magnetics

# **Vanguard - Maninga Marley Centre**



- Alpha Domain(South)
- Multiple high grade deposits in 5km radius

255,400oz extracted

+137,000oz (JORC 2012 resources)

+ 55,300oz (JORC 2004 resources)\*

- Mafic host qtz-sulphide Au
- Early success in RC drilling
- Follow up RC underwayVanguard, Havilah & Maninga Marley

\*A Competent Person has not completed sufficient work to accurately classify the JORC 2004 estimates as Mineral Resources under the JORC 2012 Code

# **Vanguard Prospect**

## **Significant Assay Results**

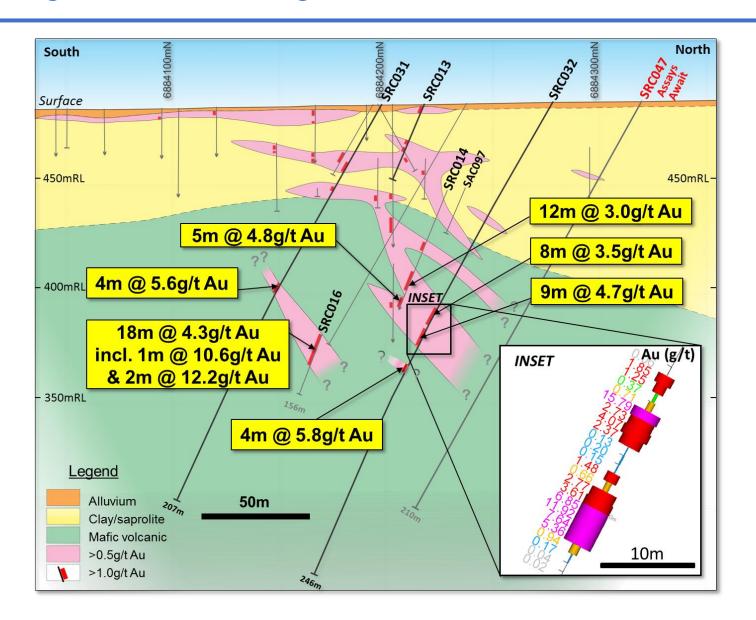


AC drilling – May 2017								
SAC108	: 3m @ 8.8g/t Au from 45m							
incl.		1m	@	22.2g/t Au	from	45m		
SAC115	:	3m	@	8.2g/t Au	from	28m		
incl.		1m	@	21.6g/t Au	from	28m		
SAC117	:	4m	@	5.4g/t Au	from	65m		
incl.		1m	@	19.4g/t Au	from	65m		
SAC105	:	4m	@	5.2g/t Au	from	64m		
incl.		1m	@	18.4g/t Au	from	66m		
SAC119	:	6m	@	3.3g/t Au	from	71m		
incl.		1m	@	17.7g/t Au	from	74m		

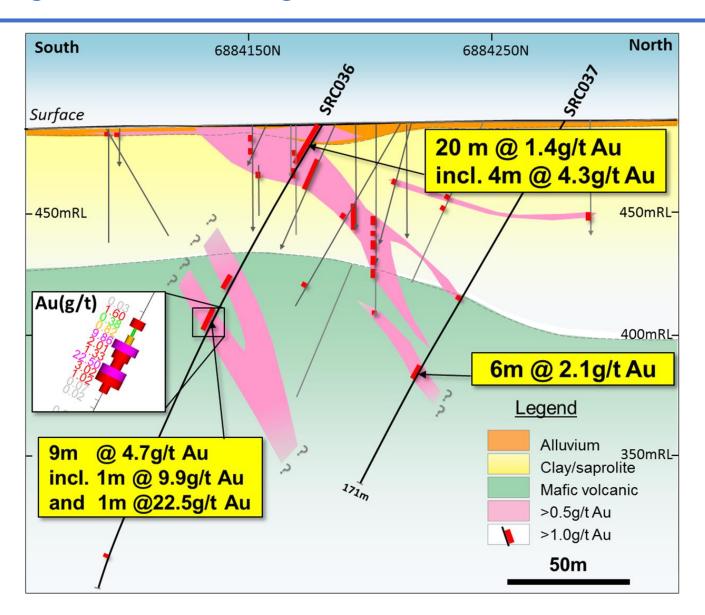
F	RC dril	ling -	- July,	Oct,	Nov	2017
				_		

SRC013	:	6m	@	5.3g/t Au	from	52m
SRC014	:	12m	@	3.0g/t Au	from	87m
and		5m	@	4.8g/t Au	from	103m
SRC016	:	18m	@	4.3g/t Au	from	122m
incl.		12m	@	5.6g/t Au	from	126m
SRC019	:	11m	@	2.2g/t Au	from	69m
SRC032	:	8m	@	3.6g/t Au	from	105m
incl.		1m	@	15.8g/t Au	from	109m
and	:	9m	@	4.6g/t Au	from	116m
incl.		1m	@	11.9g/t Au	from	121m
SRC036	:	9m	@	4.7g/t Au	from	89m
incl.		1m	@	22.5g/t Au	from	95m
SRC037	:	6m	@	2.1g/t Au	from	118m

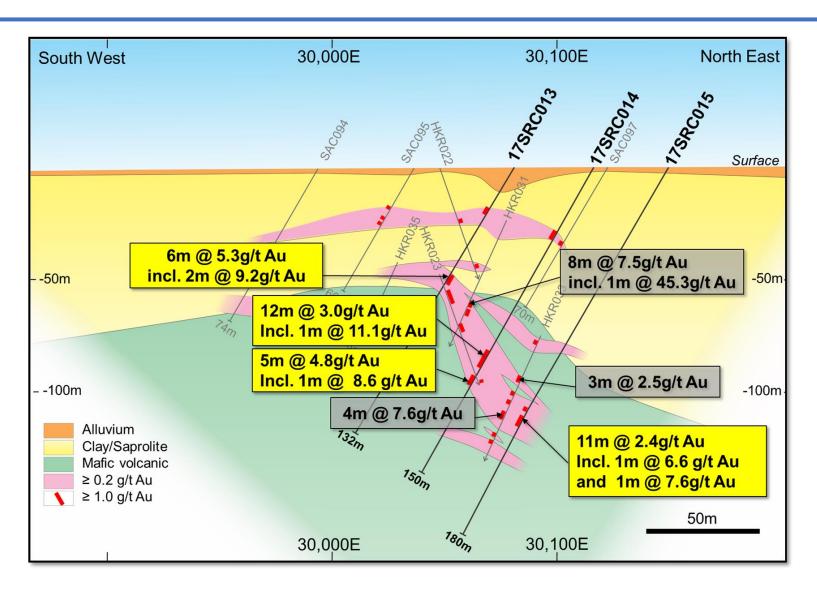
### Section 740,800mE



### **Section 740,760mE**



### Section 9,290mN



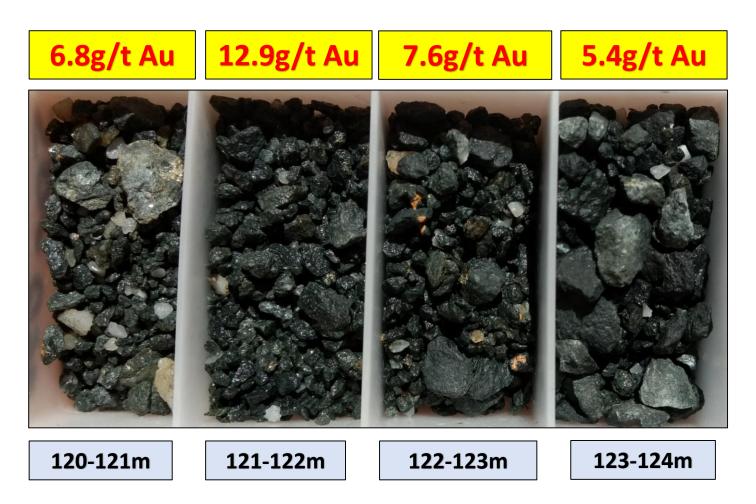
## **July 2017- Mineralised Dolerite**

## Drill Chips Hole SRC016 from 132m to 136m



14

## Drill Chips Hole SRC032 from 120m to 124m



## Drill Chips Hole SRC036 from 92m to 97 m

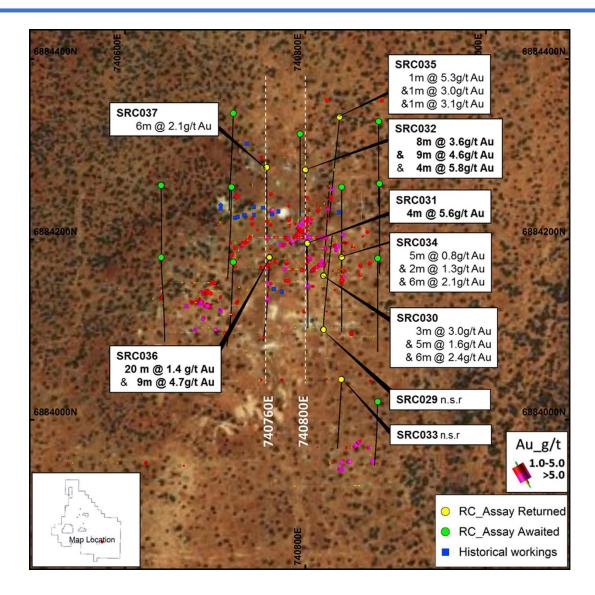


### Alto drill hole locations and assays

Dr Roger Townend undertook petrological examination of RC drill chips from hole SRC016 drilled at Vanguard in July 2017.

#### His comments were:

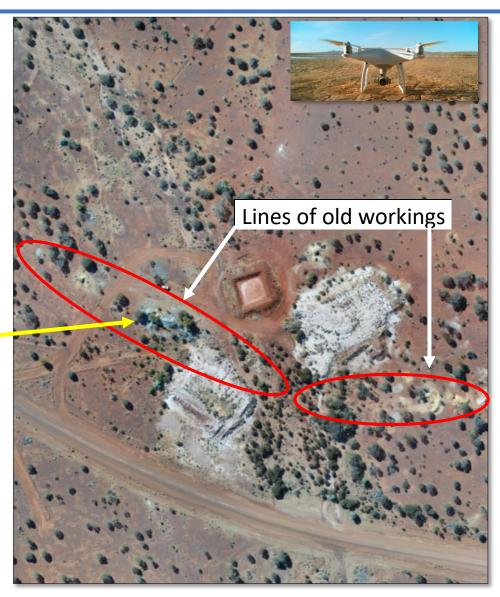
"The assayed gold mineralization appears to be associated with granophyric dolerites or their included veins, and is therefore not dissimilar with the Mt Charlotte granophyre deposit".



# **Maninga Marley**

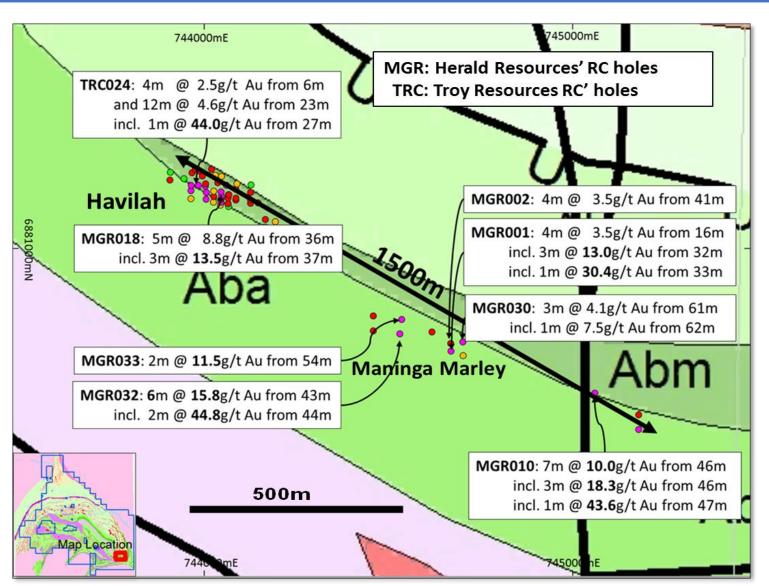
### 6km SE of Vanguard, fresh rock from near surface





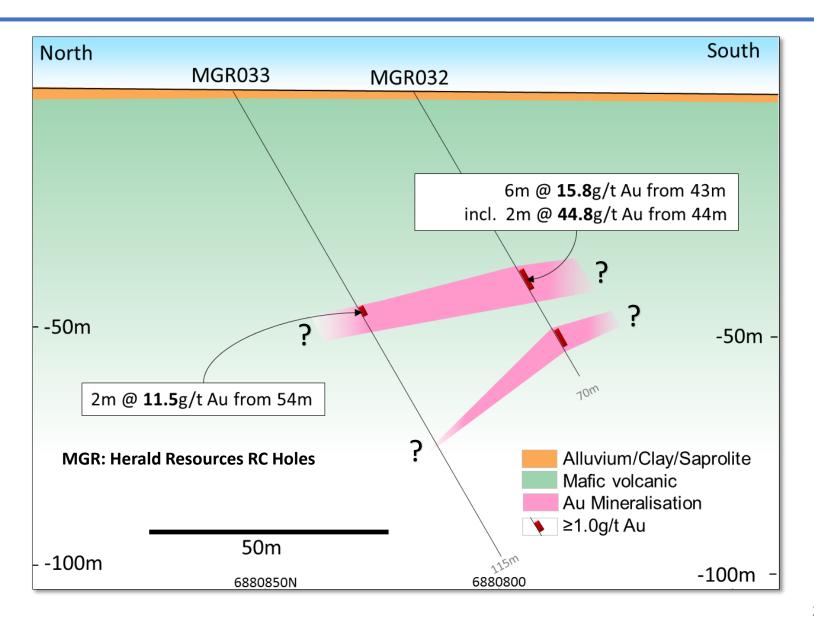
# **Havilah-Maninga Marley**

### **Shallow Troy & Herald RC drilling**



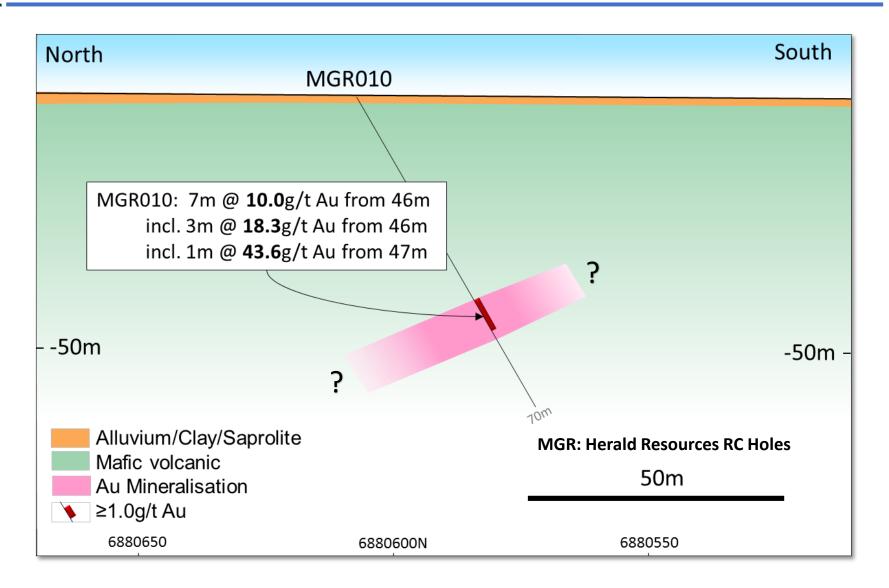
# **Maninga Marley**

### Section 744530E

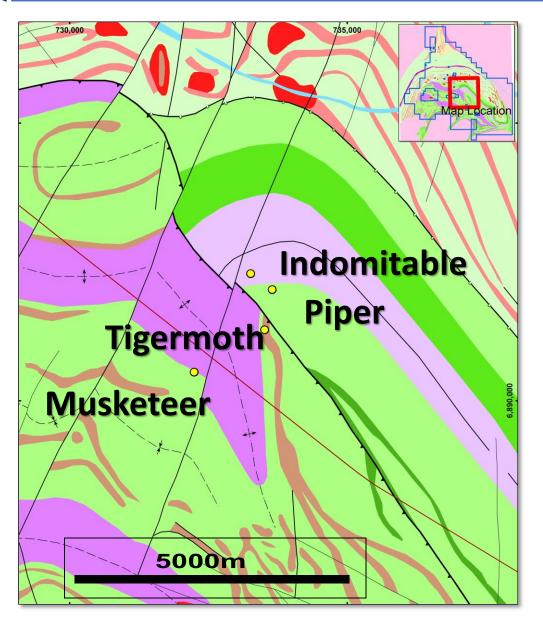


# **Maninga Marley**

### Section 745060E



### **Indomitable Centre**



- > Alpha Domain(North)
- Multiple deposits

  35,200oz\* (JORC 2004 resources)

  (Tigermoth & Piper)
- Structural control on AuMineralisation
- Deeper weathering profile
- To follow up
  Indomitable (oxide & fresh)

\*A Competent Person has not completed sufficient work to accurately classify the JORC 2004 estimates as Mineral Resources under the JORC 2012 Code

# **Indomitable Prospect**

## **Drilling 2016-2017**



#### Alto's AC and RC Drilling Results 2016-2017

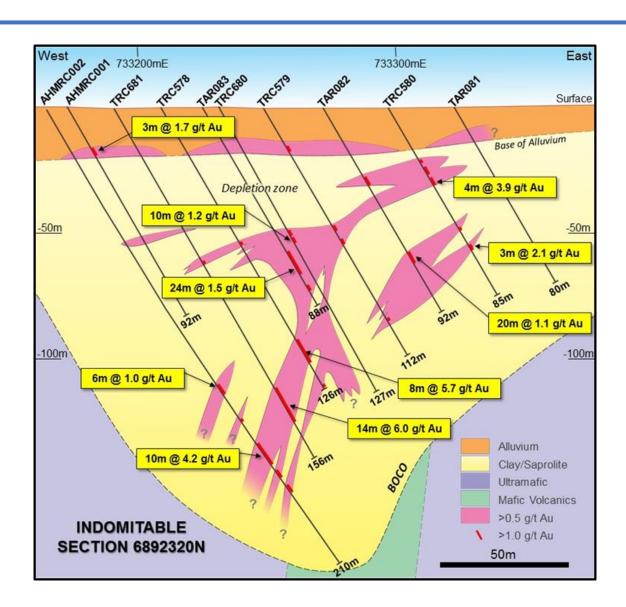
AHMRC002	:	10m	@	4.2 g/t Au	from	154m
incl.		2m	@	11.5g/t Au	from	158m
AHMAC009	:	3m	@	3.7g/t Au	from	120m
and		1m	@	6.1g/t Au	from	121m
AHMAC010	:	44m	@	2.1g/t Au	from	60m
incl.		7m	@	3.8g/t Au	from	65m
and		10m	@	3.6g/t Au	from	94m
AHMAC015	:	7m	@	4.0 g/t Au	from	44m
incl.		1m	@	13.3g/t Au	from	48m
and		11m	@	2.3g/t Au	from	100m

AHMAC019	:	9m	@	4.1g/t Au	from	64m
incl.		3m	@	10.2g/t Au	from	64m
and		5m	@	6.4g/t Au	from	77m
incl.		2m	@	14.4g/t Au	from	79m
AHMAC025	:	4m	@	2.9g/t Au	from	52m
SAC030	:	11m	@	2.1g/t Au	from	45m
incl.		2m	@	6.9g/t Au	from	47m
and		9m	@	3.5g/t Au	from	61m
incl.		1m	@	18.4g/t Au	from	64m

## **Indomitable**

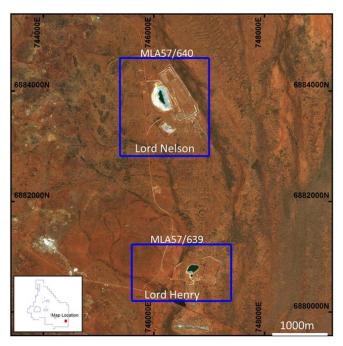
### **Section 689 2320mN**

- Multiple gold mineralised structures along 5km of Musketeer Shear Zone (MSZ)
- Potential for oxide gold deposits
- 200m deep tongue of oxidation, suggests sulphide body at depth
- Potential for high grade primary gold system at depth
- Primary zone yet to be drill tested



# Mining Lease Applications – Lords Project

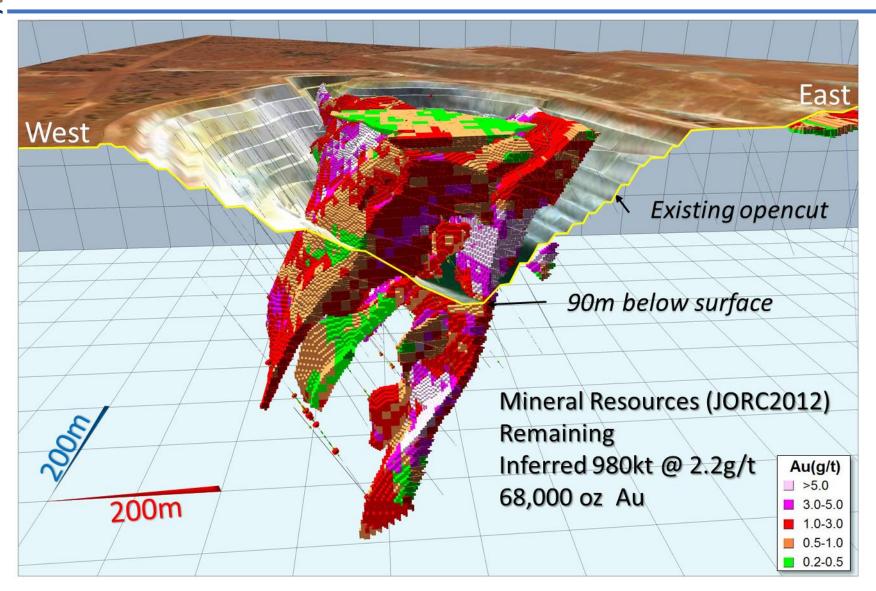
- ML's pegged over Lord Nelson & Lord Henry in July 2017
- Potential for profit-sharing agreement with one of existing producers in the region (within 200km)
- In keeping with short-term strategy to identify & develop shallow gold resources



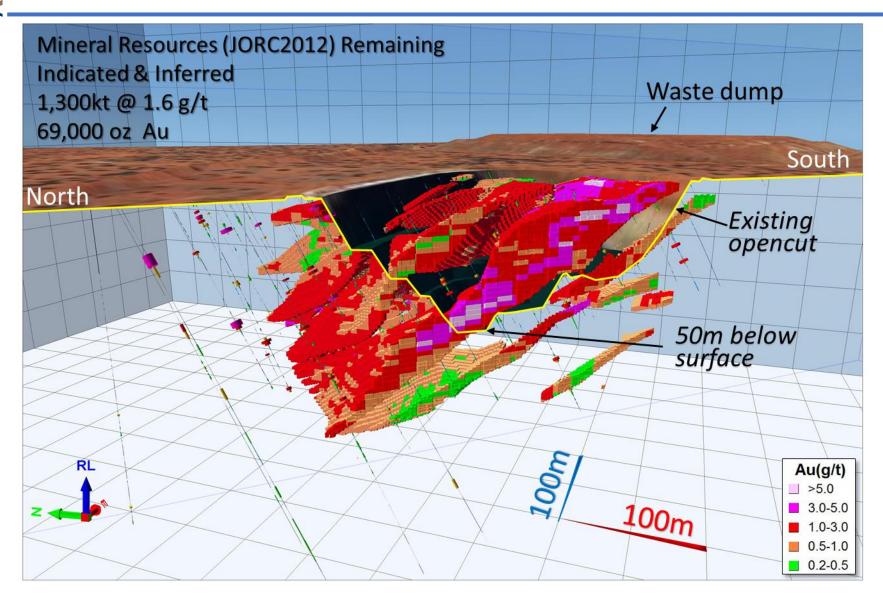




## **Lord Nelson - Mineral Resource**



# **Lord Henry - Mineral Resource**



- 100% of Sandstone Gold Project in Western Australia
- 800km<sup>2</sup> of under-explored Sandstone Greenstone Belt
- 163.5m shares on issue at 9 Nov 2017
- 173.2M shares on issue subject to Shareholder approval (excl SPP)
- A "minerals system approach" to discovery, not "drill and hope"
- Potential for + million oz gold deposits (oxide & primary minz.)
- Commitment to staged AC and RC drilling programs ("PDCA")
- Cash \$0.77M at 30 Sept 2017 + \$1.60M from October placement
- 2.33Mt @ 1.8g/t Au for 137,000oz (JORC 2012 Resources)
- + 2.08Mt @ 1.9g/t Au for 125,000oz (JORC 2004 Resources)
- RC drilling in progress and results awaited.....

### **APPENDIX - Sandstone**

#### **Communication & Infrastructure**

- Shire population ~200
- 600kms north of Perth
- Pastoral region, sheep, cattle
- Gravel daytime airstrip
- Mobile phone coverage
- Grid power, potable water







## **Sandstone Bull Oak Mine**

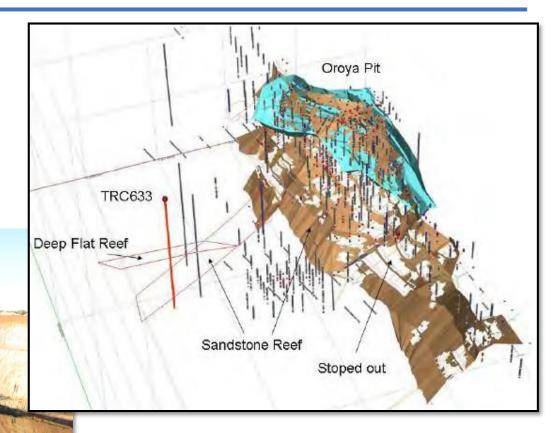
- Bull Oak u/g mined to 1930
- 3 main NE dipping high grade Au quartz reefs in tonalite
- Bull Oak pit mined by Herald 1997-99
- Numerous small and parallel Au oxide reef systems mined in open pit



"an exploration opportunity...."

# **Sandstone Oroya Mine**

Oroya underground workings with Herald open pit superimposed



"an exploration opportunity...."

### **Alto's Mineral Resources**

#### Mineral Resources: JORC 2012 (Alto Metals Ltd) & JORC 2004\* (Troy Resources NL)

1.8

137

#### Sandstone Mineral Resources JORC (2012)

Prospect	Category	Kt	Grade	KOz
Lord Nelson	Inferred	983	2.2	68
Lord Henry	Indicated	1,238	1.6	65
	Inferred	110	1.3	4
Lord Henry Total		1,348	1.6	69
Lord Henry Total		1,348	1.6	69

2,331

"Potential to substantially increase oxide and hard rock resources at all deposits..."

#### Sandstone Mineral Resources JORC (2004)

TOTAL (JORC 2012)

Prospect	Category	Kt	Grade	KOz
Havilah	Indicated	285	1.7	15.5
	Inferred	41	2.1	2.8
Bull Oak Reefs	Inferred	390	1.5	18.8
Vanguard	Inferred	330	1.6	16.7
Ladybird	Indicated	118	2.5	9.6
	Inferred	40	2.1	2.7
Maninga Marley	Inferred	80	3.1	8.0
Sandstone North	Inferred	77	2.0	4.9
Oroya Underground	Inferred	63	5.3	10.7
Tigermoth	Inferred	561	1.7	31.2
Piper	Indicated	91	1.4	4.0
TOTAL (JORC 2004)		2,076	1.9	125

Total Indicated 494 1.8 29
Total Inferred 1,582 1.9 96
TOTAL (JORC 2004) 2,076 1.9 125

\*A Competent Person has not completed sufficient work to accurately classify the JORC 2004 estimates as Mineral Resources under the JORC 2012 Code