MILLENNIUM
MINERALS LIMITED

ASX Code: MOY

January 23, 2017

Impressive new results expand emerging discoveries on several fronts at Nullagine

Reconnaissance drilling further delineates significant new gold trends at Middle Creek and Camel Creek Mining Centres

Middle Creek Mining Centre

- **More strong results from the initial phase of drilling along the previously-untested 2.25 km-long Hopetoun - Endeavour trend including:**
  - **9 m @ 3.20 g/t Au** from 43 m including **2 m @ 9.70 g/t Au** (HNRD063)
  - **10 m @ 2.19 g/t Au** from 27 m including **1 m @ 7.14 g/t Au** (HNRD058)
  - **5 m @ 2.44 g/t Au** from 54 m (EDRD137)
  - **2 m @ 3.24 g/t Au** from 37 m (EDRD129)

Camel Creek Mining Centre

- **First pass reconnaissance drilling by Millennium along the 1.2 km Daisy Central trend located between the Little Wonder and Round Hill deposits has returned significant results including:**
  - **4 m @ 12.11 g/t Au** from 39 m including **1 m @ 44.30 g/t Au** (DCRD0031)
  - **9 m @ 1.32 g/t Au** from 32 m (DCRD0022)
  - **4 m @ 4.80 g/t Au** from 57 m including **1 m @ 15.00 g/t Au** (DCRD0032)
- **First pass drilling by Millennium at the Mustang prospect delivers immediate success with results including:**
  - **6 m @ 3.95 g/t Au** from 43 m including **2 m @ 10.13 g/t Au** (MURD0079)
  - **7 m @ 2.63 g/t Au** from 46 m including **1 m @ 11.20 g/t Au** (MURD0073)
  - **7 m @ 2.27 g/t Au** from 25 m including **1 m @ 5.29 g/t Au** (MURD0069)
  - **5 m @ 3.68 g/t Au** from 22 m including **1 m @ 7.98 g/t Au** (MURD0031)
  - **4 m @ 3.90 g/t Au** from 9 m including **1 m @ 5.41 g/t Au** (MURD0036)
- **Drilling to test for mineralisation within the immediate surrounds of the Little Wonder and Roscoes Reward deposits have returned encouraging results including:**
  - **4 m @ 11.66 g/t Au** from 44 m including **1 m @ 43.10 g/t Au** (CCRD0044)
  - **15 m @ 2.02 g/t Au** from 34 m including **1 m @ 8.27 g/t Au** (CCRD0068)
  - **11 m @ 2.86 g/t Au** from 8 m including **1 m @ 14.35 g/t Au** (CCRD0124)
  - **21 m @ 1.86 g/t Au** from 27 m (CCRD0118)
  - **10 m @ 1.98 g/t Au** from 45 m (CCRD0127)
  - **11 m @ 1.81 g/t Au** from 62 m (CCRD0032)

Millennium Minerals Limited (**Millennium** or **Company** – ASX: MOY) is pleased to report highly encouraging new results from reconnaissance drilling testing significant new gold trends at both the Middle Creek and Camel Creek Mining Centres at its Nullagine Gold Project (**Nullagine** or Project) in WA's Pilbara region (***Figure 1***).

At the Middle Creek Mining Centre, the results have further strengthened

Corporate Details

Ordinary Shares:
780,917,069

Market Capitalisation:
~$205 million

Cash at 31 Dec 2016
~$25.2 million

Debt
NIL

ASX Code: MOY

Board of Directors

Richard Procter
Non-Executive Chairman

Greg Bittar
Executive Director

Michael Chye
Non-Executive Director

Tim Kennedy
Non-Executive Director

Management

Glenn Dovaston
Chief Executive Officer

Richard Hill
Chief Financial Officer

Pierre Malherbe
Company Secretary

Peter Cash
GM Corporate Development

Contact Details

10 Kings Park Road
West Perth, Western Australia,

Telephone:
+ 61 (08) 9216 9011

Facsimile:
+ 61 (08) 9481 0288

Email: info@mmltd.com.au

Website:

millenniumminerals.com.au

the potential of the newly discovered 2.5 km-long Hopetoun – Endeavour trend of mineralisation (ASX release, 3 November 2016).

Reconnaissance drilling supports the potential to establish several open pit operations along this trend, which stretches from the All Nations North deposit in the north-east to the Hopetoun deposit to the south-west. This trend will become an important focus for in-fill resource drilling during 2017.

In addition to this new discovery, impressive results have also been returned from drilling programs completed within the Camel Creek Mining Centre.

Reconnaissance drilling along the 1.2 km-long Daisy Central prospect (located between the Little Wonder and Round Hill deposits) has also returned significant high-grade results, suggesting that this area will also become an important focus for resource drilling during 2017.

In addition, high-grade results have been returned from the Mustang prospect and the immediate surrounds of the Little Wonder and Roscoes Reward deposits. All these projects are located within the Company's Camel Creek Mining Centre (see ***Figure 1***).

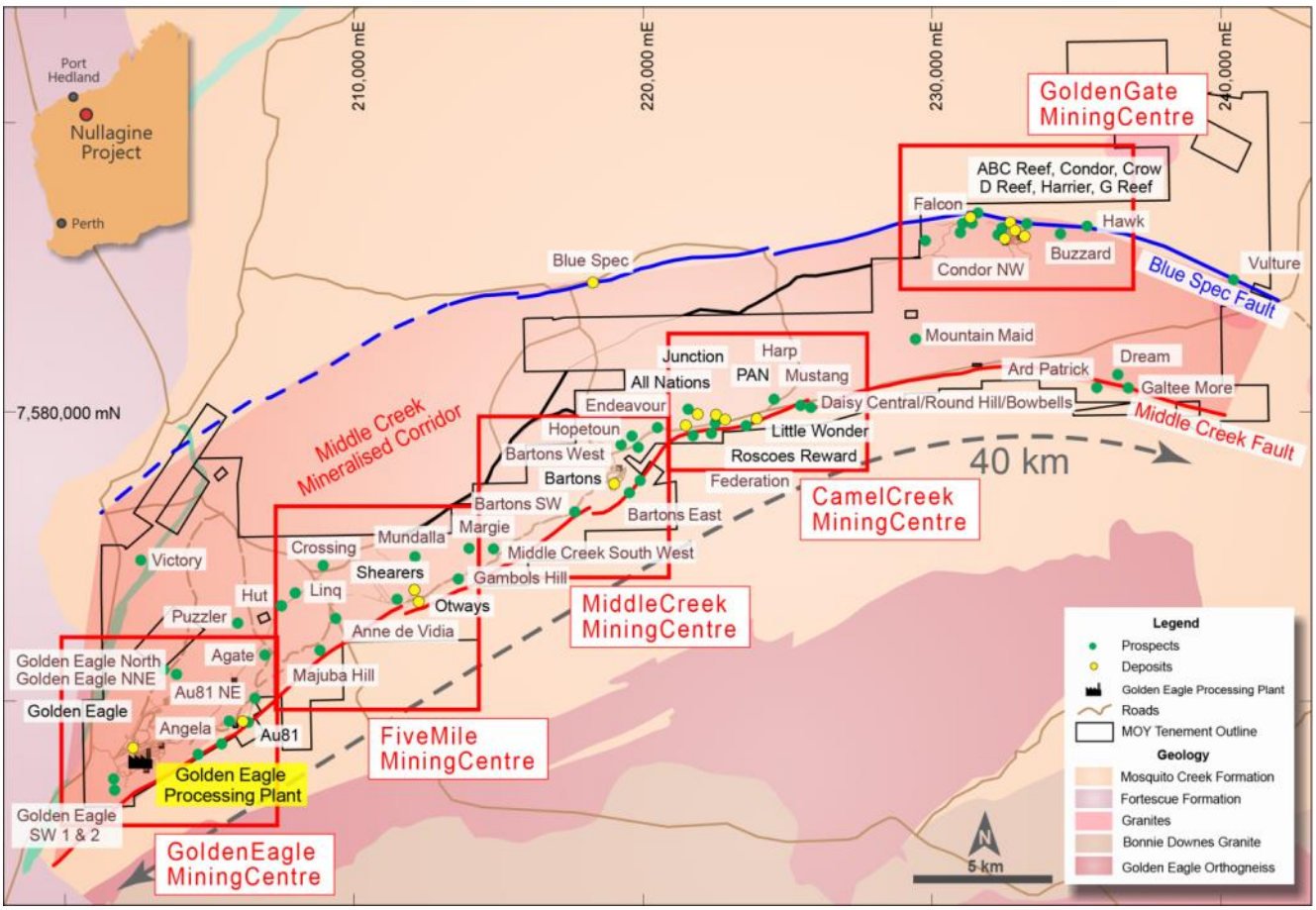

Figure 1: Nullagine Gold Project Location Plan over regional geology

Millennium Chief Executive Glenn Dovaston said the latest drilling results demonstrated the potential for significant new discoveries at Nullagine in close proximity to established mining areas.

"While our focus for much of last year was to test immediate extensions to known deposits to add incremental ounces, towards the end of last year our exploration team began to look further afield – and the initial results of this work have been impressive," Mr Dovaston said.

"The newly discovered 2.25-km long mineralised trend at Hopetoun – Endeavour and now the 1.2-km long Daisy Central trend and Mustang prospects are major developments for Nullagine, demonstrating the potential to unlock new areas of mineralisation which could significantly enhance our strategy to grow mine life.

"While we have completed only first pass drilling campaigns along these newly identified prospects, it is already clear from the numerous zones of mineralisation we have intersected that these previously unexplored areas are extremely promising.

"We now plan to conduct intensive in-fill drilling programs over these newly identified trends to establish JORC Mineral Resources during 2017, while continuing to step-out and test other exciting new prospects.

"What is clearly emerging is that the Nullagine goldfield is still at a relatively early stage in its discovery history and, the more we drill, the more we are likely to find.

"Given the success of our $13.9 million exploration program in 2016, we intend to at least replicate this investment amount on exploration in 2017 as part of an ongoing aggressive strategy aimed at growing the Project's gold inventory and mine life."

The 2017 exploration program commenced this week with four RC drill rigs now on site with a strong focus on expanding existing Mineral Resources as well as progressing the Company's exciting pipeline of evolving exploration projects.

Middle Creek Mining Centre

Hopetoun – Endeavour trend

The Hopetoun - Endeavour trend represents a north-east striking 2.25 km long mineralised fault corridor that extends from the historic Hopetoun workings in the south-west, through to the All Nations North prospect area to the north-east. The historic Endeavour workings are located approximately at the central point of this mineralised trend (***Figure 2***).

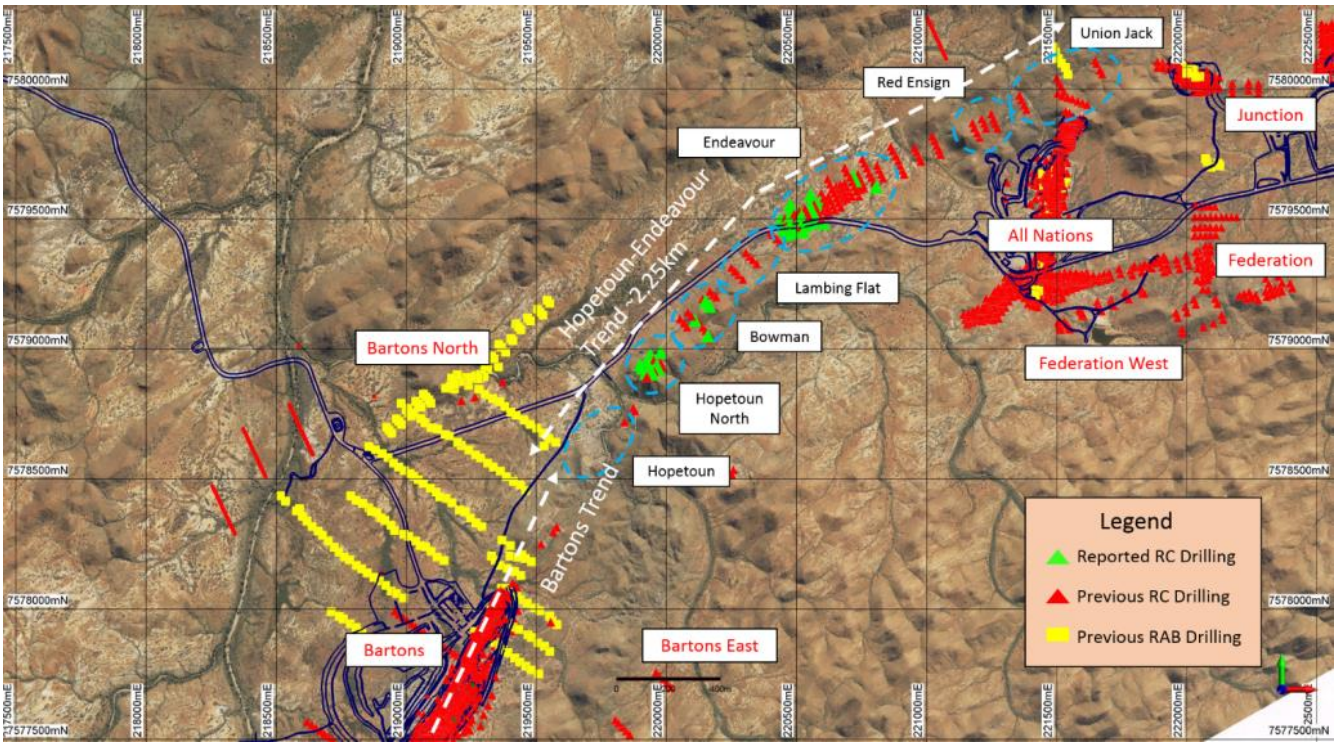

Figure 2: Location Map of the Hopetoun-Endeavour Trend showing key prospects and drill hole locations

The Hopetoun North – Endeavour trend is interpreted to represent gold mineralisation along the same fault/shear corridor that hosts the well-endowed Bartons deposit to the south-west (***Figure 2***). This newly discovered mineralised zone potentially represents a very significant north-eastern extension to this high grade mineralised trend.

All results from a reconnaissance RC drilling program completed during the December Quarter have now been received. Further significant results include (***Figure 3*** and ***Appendix 1***):

- **9 m @ 3.20 g/t Au** from 43 m including **2 m @ 9.70 g/t Au** (HNRD063)
- **10 m @ 2.19 g/t Au** from 27 m including **1 m @ 7.14 g/t Au** (HNRD058)
- **5 m @ 2.44 g/t Au** from 54 m (EDRD137)
- **2 m @ 3.24 g/t Au** from 3 m (EDRD129)

These results follow on from previously released results (ASX Release November 3 2016) which included (***Figure 3*** and ***4***):

- **20 m @ 2.51 g/t Au** from 28 m including **1 m @ 5.00 g/t Au** (EDRD034)
- **6 m @ 5.73 g/t Au** from 52 m including **3 m @ 9.41 g/t Au** (HNRD049)
- **3 m @ 4.70 g/t Au** from 3 m including **1 m @ 12.70 g/t Au** (EDRD107)
- **4 m @ 2.75 g/t Au** from 4 m including **1 m @ 5.29 g/t Au** (EDRD076)

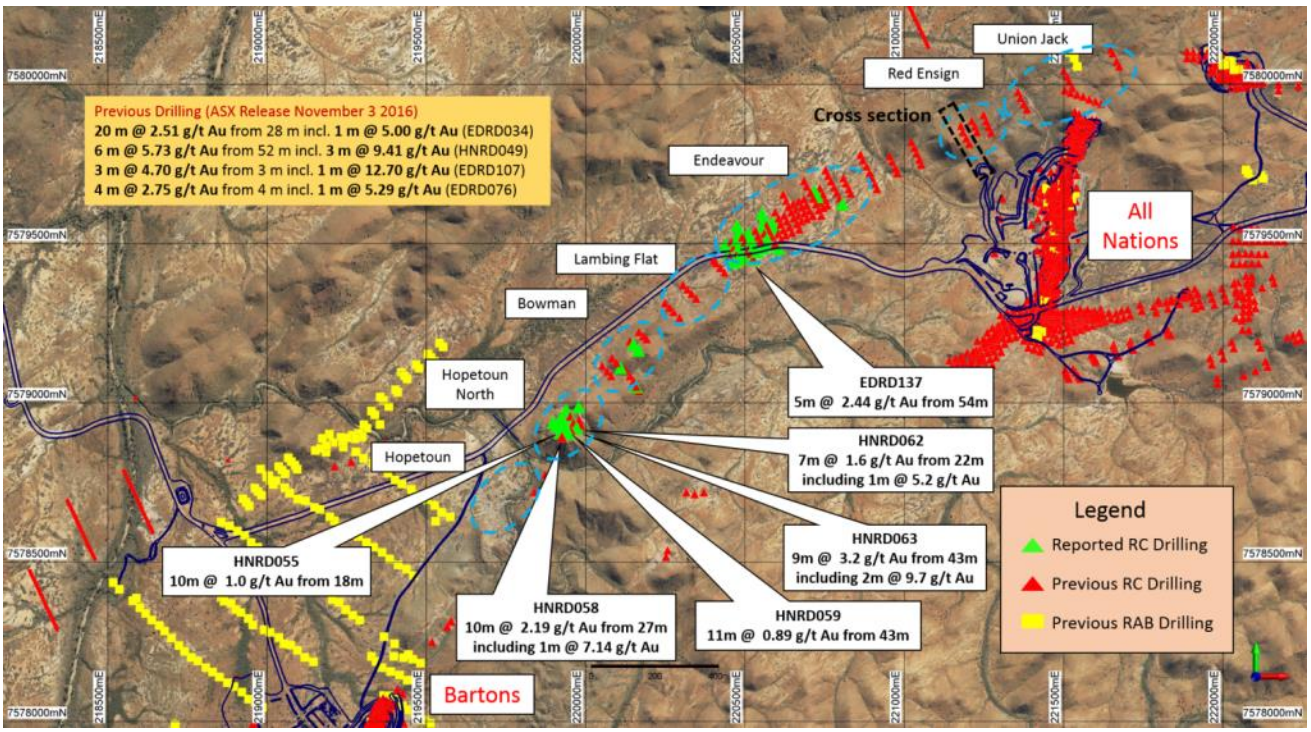

Figure 3: Hopetoun - Endeavour trend location plan showing significant intercepts from RC drilling

These encouraging results will be followed-up by drill programs in the current quarter to test for extensions to the known mineralisation and infill existing wider spaced reconnaissance lines.

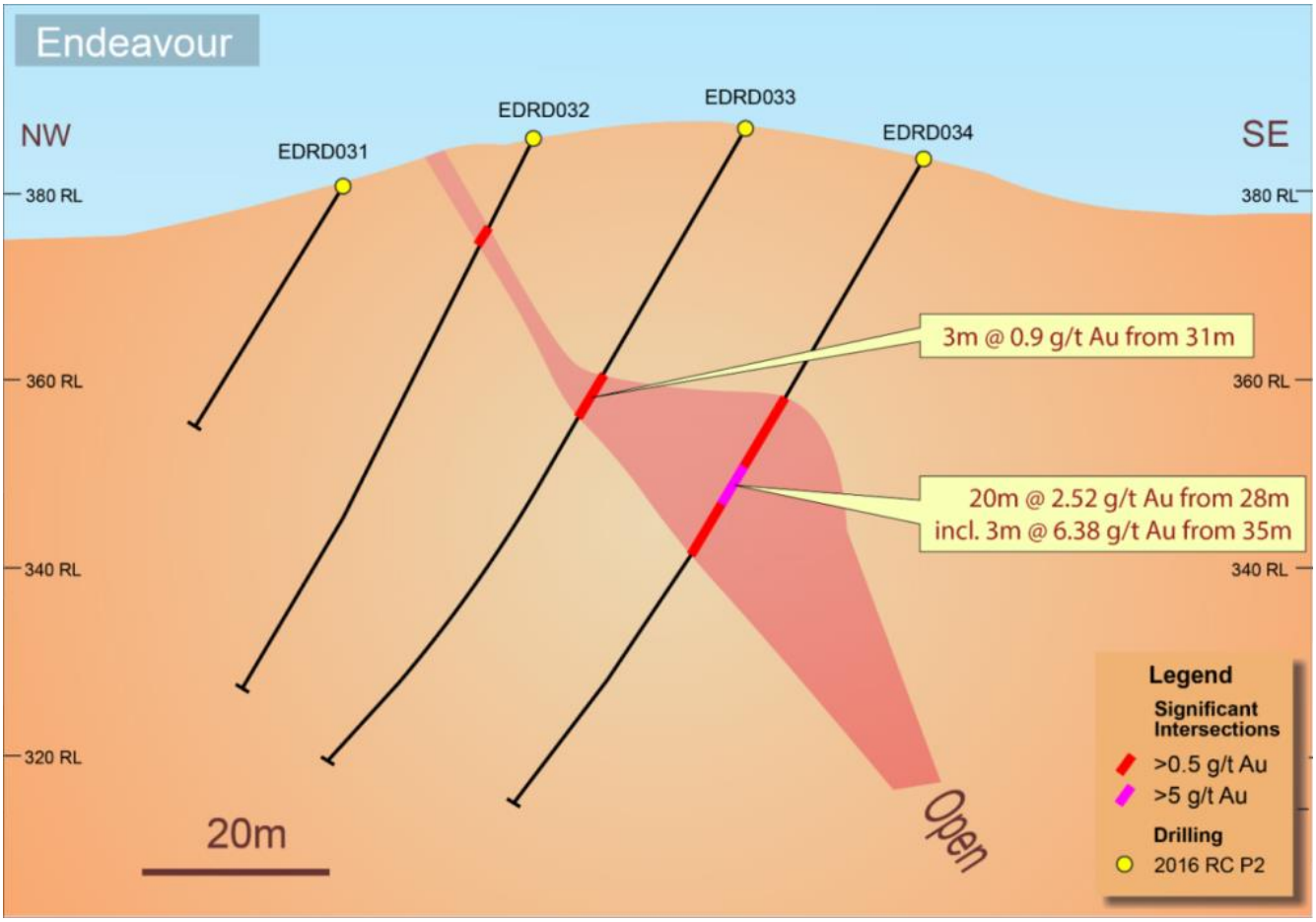

Figure 4: Section illustrates (location noted in Figure 3) results from the Red Ensign prospect on the Endeavour Trend.

Camel Creek Mining Centre

Daisy Central

The Daisy Central prospect is located between Little Wonder and Round Hill deposits, approximately 25 km from the processing plant (***Figure 1***).

The prospect consists of several discontinuous but parallel sets of historical workings that trend east-north-east over approximately 1.2 km. The western end of the trend is interpreted to adjoin the eastern limits of the Little Wonder deposit (***Figure 5***).

Very little historical exploration work has been carried out as the area is covered with a thin veneer of colluvium which masks geology. Previous rock chip sampling along with sporadic, wide spaced RAB drilling has been completed which returned anomalous gold results beneath historic workings.

As a first-pass test, the Company completed three wide spaced reconnaissance RC lines across the prospect during the December Quarter to confirm the presence of anomalous gold beneath the colluvium cover as well as to confirm the structural controls on mineralisation.

The results from this drilling have delivered immediate success which potentially indicates significant bedrock mineralisation along multiple trends. Better results include (***Figure 5*** and ***Appendix 2***):

- **4 m @ 12.11 g/t Au** from 39 m including **1 m @ 44.30 g/t Au** (DCRD0031)
- **9 m @ 1.32 g/t Au** from 32 m (DCRD0022)
- **7 m @ 1.26 g/t Au** from 34 m (DCRD0013)

- **4 m @ 4.80 g/t Au** from 57 m including **1 m @ 15.0 g/t Au** (DCRD0032)
- **3 m @ 1.57 g/t Au** from 32 m (DCRD0026)

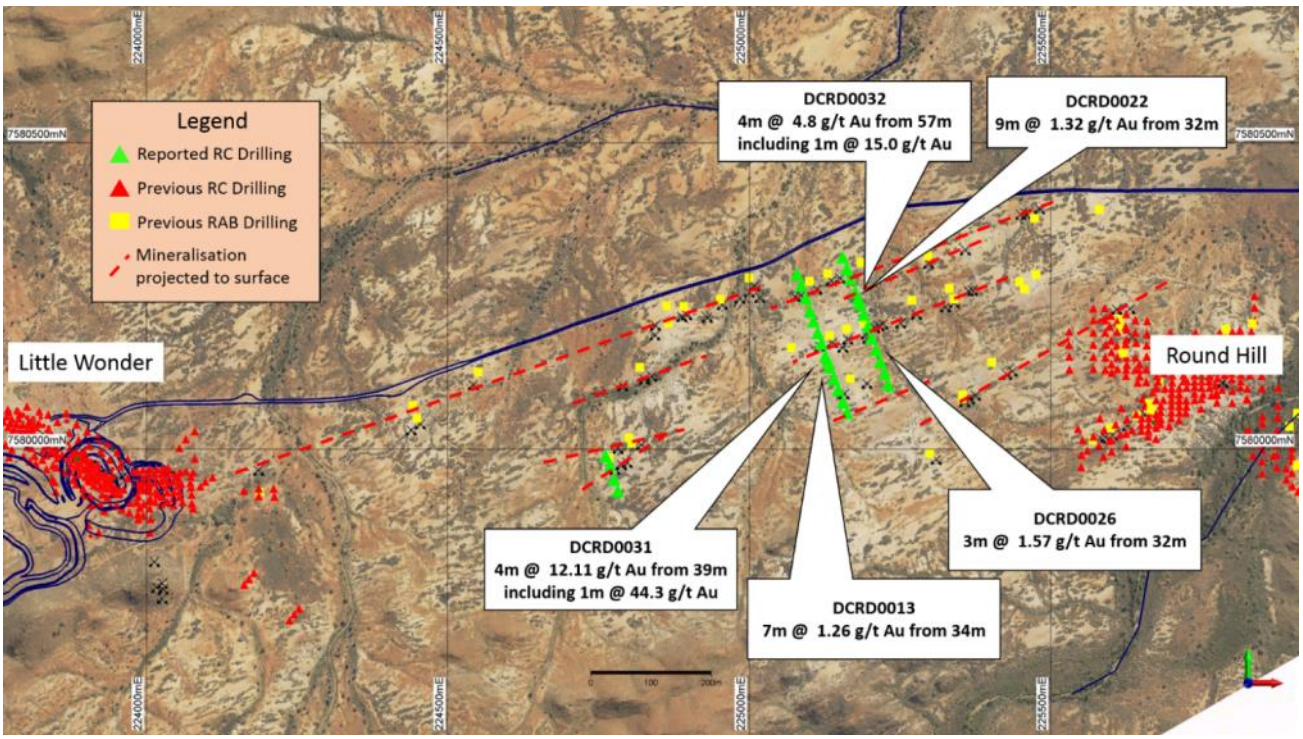

Figure 5: Daisy Central location plan showing historic workings and drill hole locations

Follow up drilling has been planned to follow up these highly encouraging results with drilling set to commence during this quarter.

Mustang

The Mustang prospect is located within the Camel Creek Mining Centre, approximately 1.5 km north-east of the existing Little Wonder deposit (***Figure 1***). The prospect is defined by a series of small workings and a 1.2 km long gold in soil anomaly. Mineralisation is interpreted to be consistent with a north-east trending, south-east dipping quartz vein within sheared, sericite/hematite altered sediment.

First-pass geological mapping and rock chip sampling by the Company was completed during the September Quarter last year returning highly anomalous rock chips results up to 37.5 g/t Au. Two reconnaissance drilling programs were completed by the Company during the December Quarter last year to better test the extents of the soil anomaly. Significant results include (***Figure 6, Figure 7*** and ***Appendix 3***):

- **6m @ 3.95 g/t Au** from 43m including **2m @ 10.13 g/t Au** (MURD0079)
- **7m @ 2.63 g/t Au** from 46m including **1m @ 11.2 g/t Au** (MURD0073)
- **7m @ 2.27 g/t Au** from 25m including **1m @ 5.29 g/t Au** (MURD0069)
- **5m @ 3.68 g/t Au** from 22m including **1m @ 7.98 g/t Au** (MURD0031)
- **4m @ 3.9 g/t Au** from 9m including **1m @ 5.41 g/t Au** (MURD0036)

A continuous high-grade mineralised zone has now been defined over a 200 m strike extent close to the historic workings. An in-fill and extensional drill program is planned to commence this quarter.

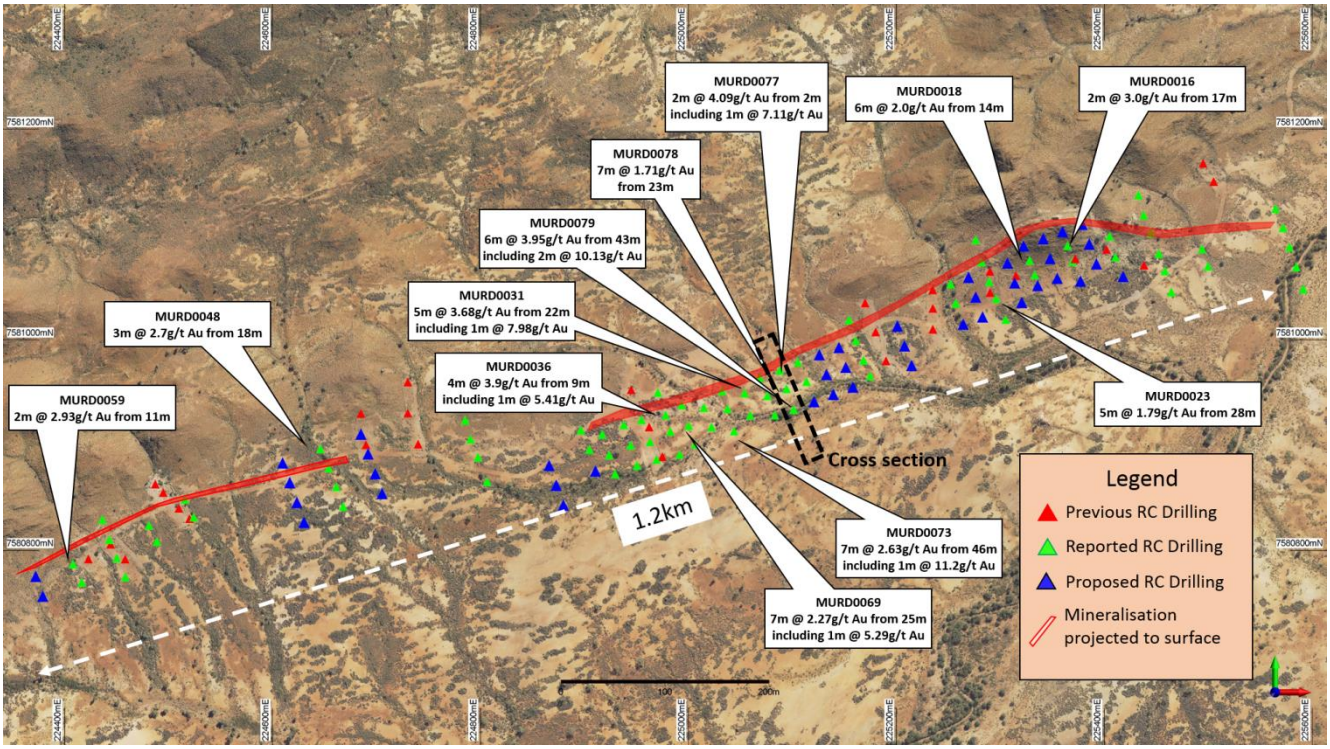

Figure 6: Mustang location plan showing the interpreted mineralised trends, existing and planned drill hole locations

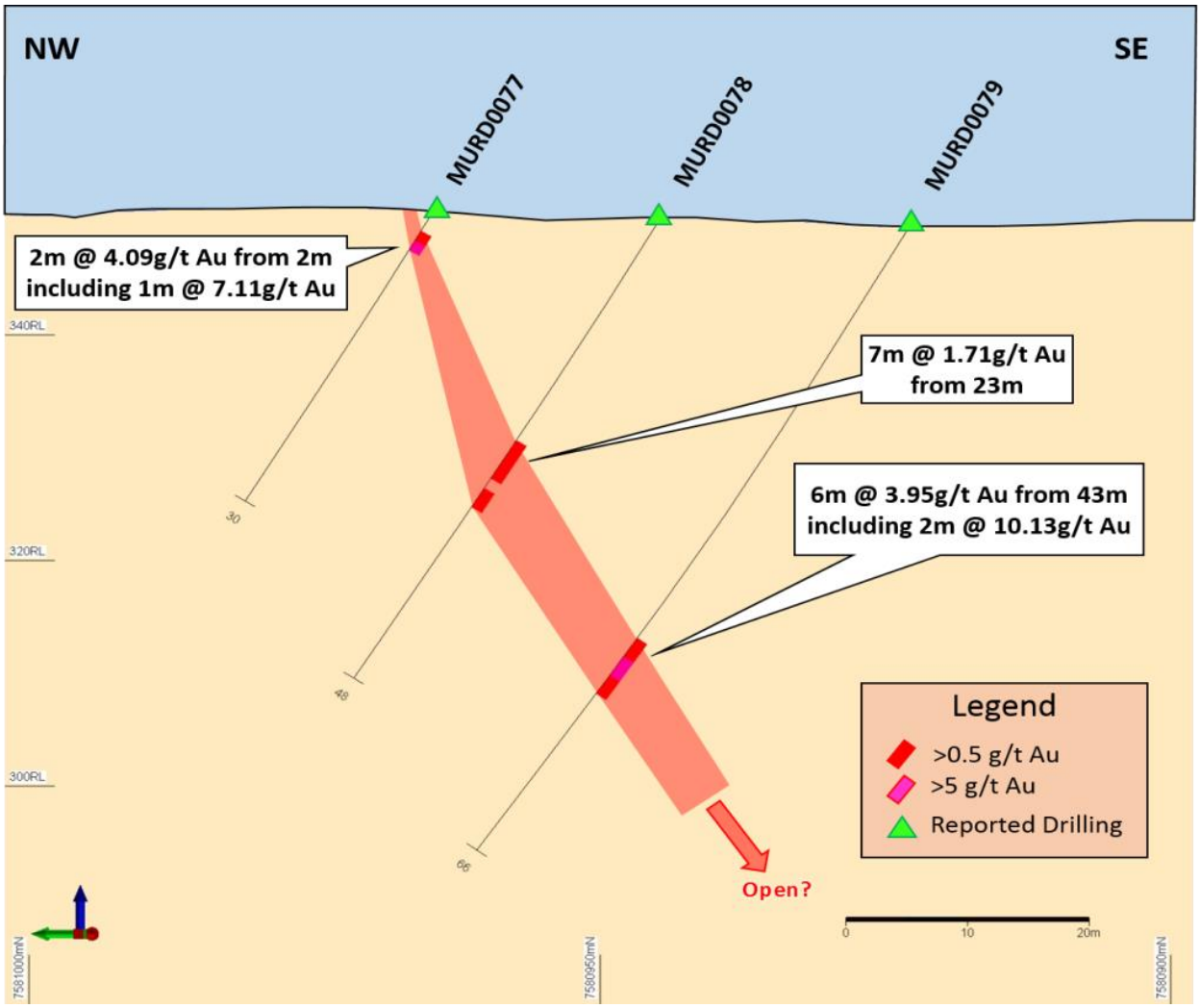

Figure 7: Mustang cross section (Location noted in Figure 6)

Little Wonder and Roscoes Reward

Through an ongoing review process, it was noted that anomalous results returned from historical RAB drilling conducted between the Little Wonder and Roscoe's Reward deposits correlated with a lithology equivalent to the mineralised host lithology at the bottom of both the Roscoe's and Little Wonder open pits.

During 2016 December Quarter, drill programs were completed to test for the presence of parallel mineralised structures between the existing Little Wonder and Roscoe's Reward deposits (***Figure 1***), and potential strike extensions to the known mineralisation at Roscoes Reward.

The drilling conducted between Little Wonder and Roscoes Reward have returned highly encouraging results indicating that parallel mineralised zones are present with results including (***Figure 8*** and ***Appendix 4***):

- **11 m @ 1.81 g/t Au** from 62 m (CCRD0032)
- **9 m @ 0.93 g/t Au** from 24 m (CCRD0038)
- **4 m @ 11.66 g/t Au** from 44 m including **1 m @ 43.1 g/t Au** (CCRD0044)

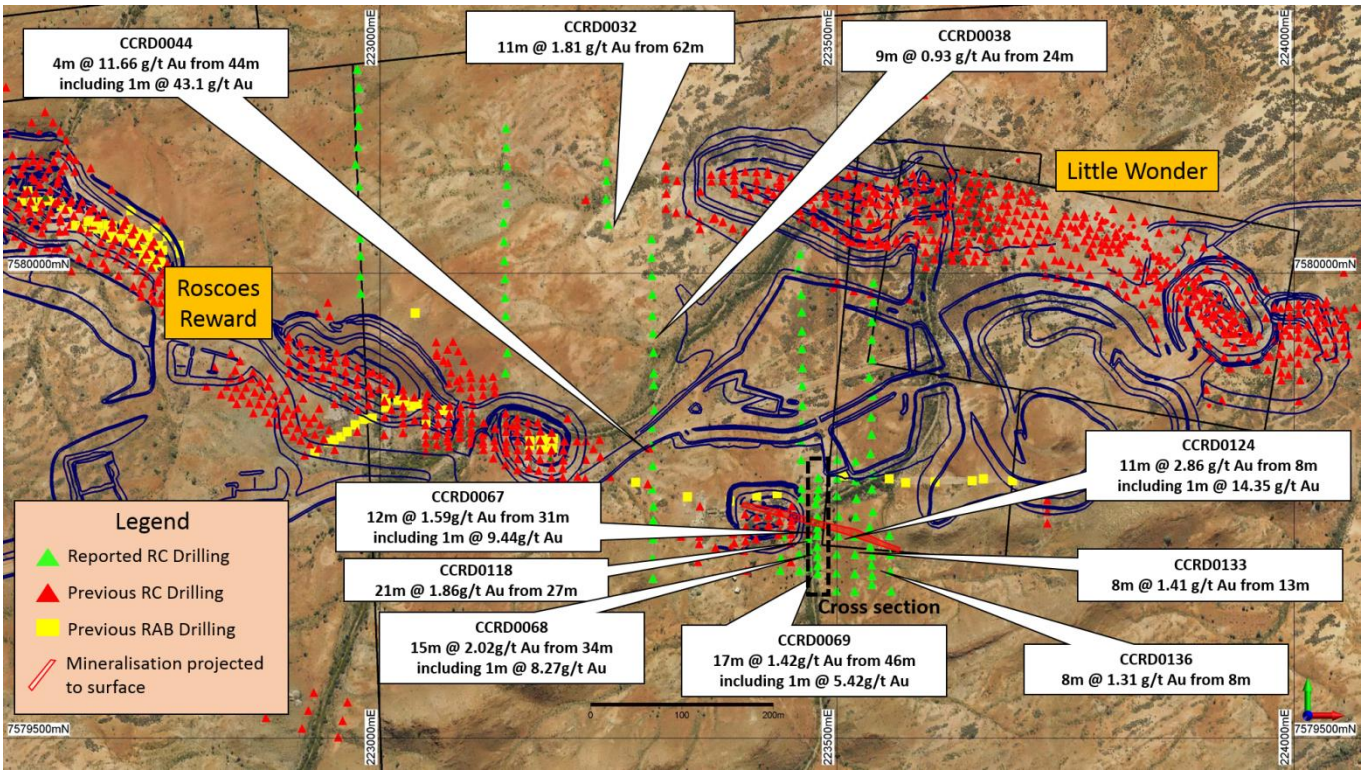

Figure 8: Little Wonder and Roscoes Reward infill and extensional drilling locations and intercepts

A drill program was also completed to test for the presence of an easterly extension to the Roscoe's Reward Pit 4. This program was completed during the December Quarter last year with significant results including (***Figure 8***, **9** and ***Appendix 4***):

- **15 m @ 2.02 g/t Au** from 34 m including **1 m 8.27 g/t Au** (CCRD0068)
- **17 m @ 1.42 g/t Au** from 46 m indicating **1 m @ 5.42 g/t Au** (CCRD0069)
- **12 m @ 1.59 g/t Au** from 31 m including **1 m @ 9.44 g/t Au** (CCRD0067)
- **11 m @ 1.25 g/t Au** from 49 m (CCRD0114)
- **21 m @ 1.86 g/t Au** from 27 m (CCRD0118)
- **11 m @ 2.86 g/t Au** from 8 m including **1 m @ 14.35 g/t Au** (CCRD0124)

- **10 m @ 1.98 g/t Au** from 45 m (CCRD0127)
- **6 m @ 2.10 g/t Au** from 32 m (CCRD0144)
- **8 m @ 2.08 g/t Au** from 45 m (CCRD0145)

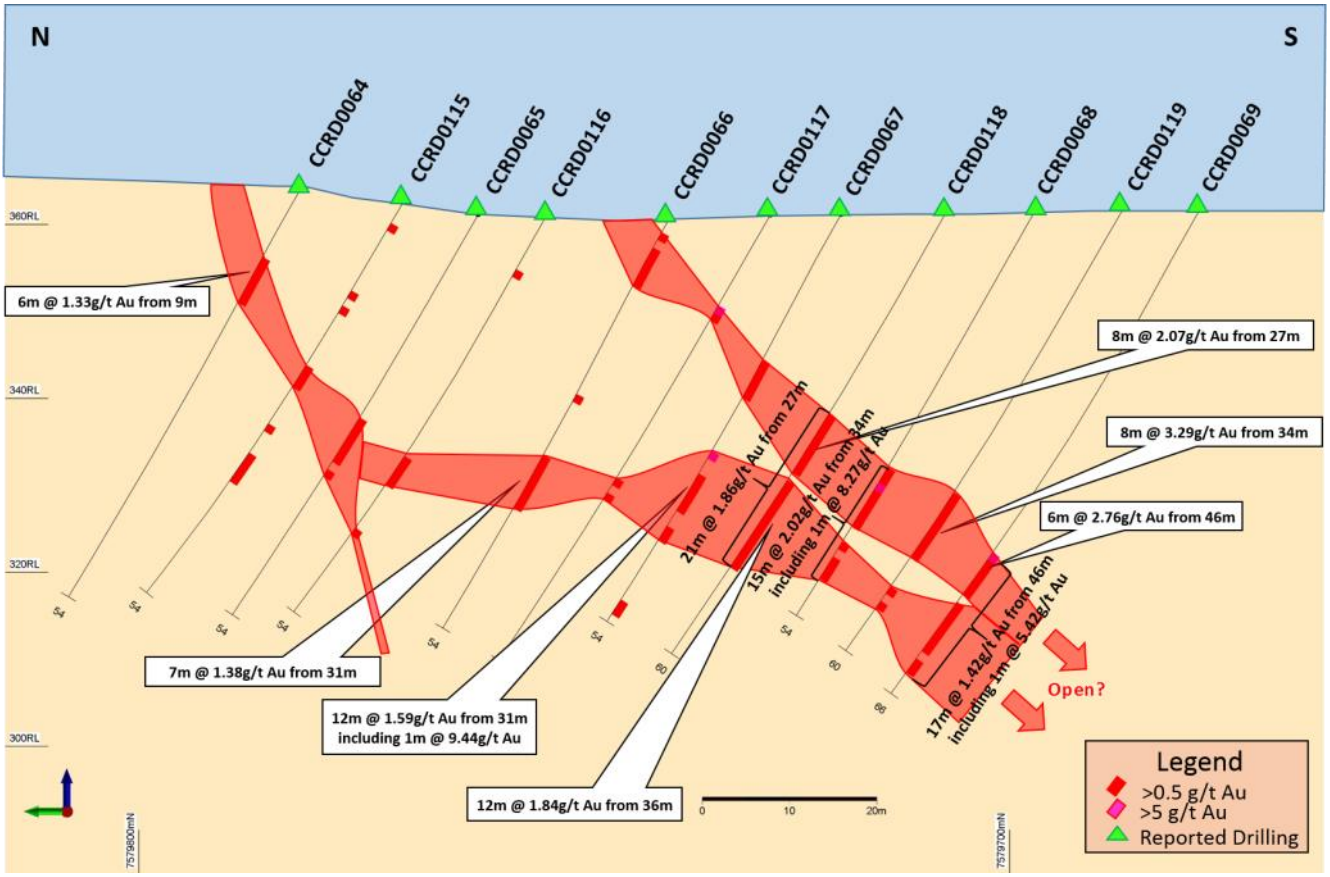

Figure 8: Roscoes Reward Pit 4 extension cross section (Location noted in Figure 8)

Follow-up drilling to test the extensional continuity of parallel mineralised structures between the Little Wonder and Roscoes Reward deposits is planned for 2017.

Golden Eagle, Golden Gate and Five Mile Mining Centres

Several drilling programs were completed across three other Mining Centres at the Project late in 2016. Projects tested include Condor (located within the Golden Gate Mining Centre), Majuba Hill (located within the Five Mile Mining Centre), and Agate (located within the Golden Eagle Mining Centre) (***Figure 1***).

The results for these drilling programs are pending but it is anticipated that the Company will be in a position to report results from these programs within the coming weeks.

As already noted, the 2017 exploration program began this week with four RC drill rigs now on site with a strong focus on expanding on existing Mineral Resources as well as progressing its exciting pipeline of evolving exploration projects.

ENDS

For further information, please contact:
Glenn Dovaston – Chief Executive Officer
+61 8 9216 9011

For media inquiries, please contact:
Paul Armstrong – Read Corporate
+61 421 619 084

Competent Persons Statements – Exploration Results

Mr Andrew Dunn (MAIG), a geologist employed full-time by Millennium Minerals Limited, compiled the technical aspects of this Report. Mr Dunn is a member of the Australian Institute of Geoscientists and has sufficient experience that is relevant to this style of mineralization and type of deposit under consideration and to the activity that is being reported on 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 Dunn consents to the inclusion in the report of the matters in the form and context in which it appears

Appendix 1 – Table of significant results for Hopetoun – Endeavour trend

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
EDRD092	220806	7579625	365	335	-60	75		67	68	1	0.50	0.5
EDRD094	220718	7579666	367	335	-60	54				NSA		NSA
EDRD095	220726	7579648	367	335	-60	54		26	27	1	0.60	0.6
EDRD119	220589	7579566	365	335	-60	54				NSA		NSA
EDRD120	220597	7579548	365	335	-60	60		3	6	3	1.42	4.3
EDRD123	220553	7579595	365	335	-60	54				NSA		NSA
EDRD124	220562	7579577	365	335	-60	54				NSA		NSA
EDRD125	220605	7579485	367	335	-60	70				NSA		NSA
EDRD126	220553	7579550	366	335	-60	66				NSA		NSA
EDRD127	220560	7579531	367	335	-60	60		0	1	1	0.91	0.9
								5	9	4	0.88	3.5
EDRD128	220569	7579514	367	335	-60	60		18	21	3	0.74	2.2
EDRD129	220578	7579496	367	335	-60	60		37	39	2	3.24	6.5
EDRD130	220557	7579487	367	335	-60	60				NSA		NSA
EDRD131	220511	7579531	366	335	-60	54				NSA		NSA
EDRD132	220519	7579513	367	335	-60	60		0	4	4	0.87	3.5
EDRD133	220528	7579495	368	335	-60	60		23	26	3	1.60	4.8
EDRD134	220538	7579476	367	335	-60	60				NSA		NSA
EDRD135	220475	7579557	365	335	-60	54				NSA		NSA
EDRD136	220483	7579540	365	335	-60	54				NSA		NSA
EDRD137	220526	7579452	367	335	-60	80		54	59	5	2.44	12.2
EDRD138	220475	7579512	365	335	-60	54		52	53	1	1.16	1.2
EDRD139	220483	7579494	366	335	-60	60				NSA		NSA
EDRD140	220491	7579478	365	335	-60	60				NSA		NSA
EDRD141	220500	7579459	366	335	-60	60		30	31	1	1.00	1.0
EDRD142	220481	7579452	365	335	-60	60				NSA		NSA
EDRD143	220439	7579497	364	335	-60	54				NSA		NSA
EDRD144	220450	7579475	364	335	-60	60		16	18	2	2.22	4.4
EDRD145	220453	7579459	364	335	-60	60				NSA		NSA
EDRD146	220465	7579442	365	335	-60	60				NSA		NSA
HNRD027	220149	7579184	379	315	-60	65		6	9	3	1.05	3.1
								12	13	1	0.63	0.6
HNRD028	220166	7579166	381	315	-60	80		40	42	2	0.88	1.8
HNRD034	220109	7579111	374	315	-60	80		29	31	2	1.03	2.1
HNRD038	220159	7579051	372	315	-60	65				NSA		NSA
HNRD053	219898	7578940	379	335	-60	54				NSA		NSA
HNRD054	219909	7578928	382	335	-60	54				NSA		NSA
HNRD055	219920	7578906	393	335	-60	54		18	28	10	1.00	10.0
								39	40	1	0.54	0.5
HNRD056	219922	7578954	378	335	-60	54		12	14	2	0.57	1.1
HNRD057	219928	7578940	383	335	-60	54				NSA		NSA
HNRD058	219936	7578918	391	335	-60	54		15	16	1	0.52	0.5
								19	24	5	0.87	4.3
								27	37	10	2.19	21.9
							Incl.	34	35	1	7.14	7.1

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
								46	47	1	0.91	0.9
HNRD059	219946	7578906	398	335	-60	54		43	54	11	0.89	9.8
HNRD060	219938	7578979	371	335	-60	54		0	1	1	0.55	0.6
HNRD061	219951	7578958	381	335	-60	53				NSA		NSA
HNRD062	219962	7578937	390	335	-60	54		3	7	4	0.35	1.4
								10	12	2	0.59	1.2
								22	29	7	1.60	11.2
							Incl.	24	25	1	5.20	5.2
HNRD063	219971	7578922	395	335	-60	54		17	19	2	1.00	2.0
								24	25	1	1.16	1.2
								37	40	3	0.50	1.5
								43	52	9	3.20	28.8
							Incl.	46	48	2	9.70	19.4
HNRD064	219978	7578989	390	335	-60	54		15	16	1	0.52	0.5
								38	39	1	3.04	3.0

Appendix 2 – Table of significant results for Daisy Central

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
DCRD0001	224761	7579989	356	340	-60	60		6	7	1	0.53	0.5
DCRD0002	224769	7579974	357	340	-60	60				NSA		NSA
DCRD0003	224775	7579951	356	340	-60	60		49	50	1	1.04	1.0
DCRD0004	224782	7579932	357	340	-60	60				NSA		NSA
DCRD0005	225079	7580286	352	340	-60	60				NSA		NSA
DCRD0006	225085	7580267	353	340	-60	60				NSA		NSA
DCRD0007	225093	7580247	353	340	-60	60		1	2	1	1.31	1.3
								9	10	1	2.20	2.2
								36	37	1	0.95	0.9
DCRD0008	225100	7580226	354	340	-60	60				NSA		NSA
DCRD0009	225106	7580209	355	340	-60	60				NSA		NSA
DCRD0010	225113	7580190	356	340	-60	60				NSA		NSA
DCRD0011	225119	7580173	357	340	-60	60		33	34	1	2.28	2.3
DCRD0012	225126	7580153	357	340	-60	60		0	1	1	5.32	5.3
								10	11	1	0.52	0.5
								17	18	1	1.00	1.0
								30	31	1	1.11	1.1
DCRD0013	225133	7580134	357	340	-60	60		13	14	1	0.69	0.7
								34	41	7	1.26	8.8
								56	57	1	1.45	1.5
DCRD0014	225140	7580115	358	340	-60	60				NSA		NSA
DCRD0015	225147	7580098	359	340	-60	60		21	22	1	1.27	1.3
								39	40	1	0.79	0.8
DCRD0016	225155	7580077	358	340	-60	60		39	41	2	1.35	2.7
DCRD0017	225162	7580059	358	340	-60	72		32	33	1	1.00	1.0
								63	64	1	0.68	0.7
DCRD0018	225155	7580314	353	340	-60	60				NSA		NSA

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
DCRD0019	225161	7580295	353	340	-60	60		32	33	1	1.12	1.1
DCRD0020	225167	7580278	353	340	-60	66		3	4	1	0.55	0.6
								13	16	3	1.48	4.4
DCRD0021	225175	7580257	353	340	-60	72		43	44	1	2.01	2.0
DCRD0022	225183	7580237	353	340	-60	66		32	41	9	1.32	11.9
DCRD0023	225189	7580220	353	340	-60	60		50	51	1	2.52	2.5
DCRD0024	225197	7580201	354	340	-60	60				NSA		NSA
DCRD0025	225202	7580182	355	340	-60	60		1	2	1	5.45	5.4
								7	8	1	8.00	8.0
DCRD0026	225210	7580162	355	340	-60	72		8	9	1	0.51	0.5
								32	35	3	1.57	4.7
								39	40	1	0.91	0.9
								59	60	1	0.74	0.7
DCRD0027	225217	7580143	355	340	-60	60				NSA		NSA
DCRD0028	225224	7580124	355	340	-60	60				NSA		NSA
DCRD0029	225230	7580105	355	340	-60	60				NSA		NSA
DCRD0030	225203	7580183	354	340	-60	80		25	26	1	0.83	0.8
DCRD0031	225130	7580144	357	340	-60	60		13	15	2	0.82	1.6
								39	43	4	12.11	48.4
							Incl.	41	42	1	44.30	44.3
								46	47	1	6.46	6.5
								55	56	1	0.55	0.6
DCRD0032	225180	7580246	353	340	-60	72		12	14	2	0.77	1.5
								57	61	4	4.80	19.2
							Incl.	58	59	1	15.00	15.0

Appendix 3 – Table of significant results for Mustang drilling

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
MURD0001	225565	7581125	346	340	-60	66				NSA		NSA
MURD0002	225572	7581107	346	340	-60	90				NSA		NSA
MURD0003	225578	7581088	346	340	-60	60		53	60	7	0.58	4.1
MURD0004	225585	7581069	345	340	-60	60				NSA		NSA
MURD0005	225591	7581048	346	340	-60	103				NSA		NSA
MURD0006	225494	7581087	348	340	-60	66		9	10	1	1.61	1.6
								20	22	2	1.16	2.3
MURD0007	225500	7581070	348	340	-60	84				NSA		NSA
MURD0008	225433	7581137	353	340	-60	60				NSA		NSA
MURD0009	225438	7581119	354	340	-60	60				NSA		NSA
MURD0010	225445	7581102	352	340	-60	66				NSA		NSA
MURD0011	225452	7581082	349	340	-60	60		20	21	1	0.55	0.6
MURD0012	225458	7581065	349	340	-60	66		40	44	4	0.44	1.8
								50	51	1	0.90	0.9
MURD0013	225464	7581045	347	340	-60	90		60	61	1	0.90	0.9
MURD0014	225405	7581098	353	340	-60	60				NSA		NSA
MURD0015	225411	7581079	350	340	-60	60		16	17	1	0.70	0.7

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
								22	25	3	1.50	4.5
MURD0016	225365	7581089	357	340	-60	60		17	19	2	3.00	6.0
MURD0017	225369	7581074	351	340	-60	72		12	13	1	0.95	0.9
								24	27	3	1.11	3.3
MURD0018	225328	7581076	355	340	-60	60		3	4	1	1.08	1.1
								10	11	1	0.71	0.7
								14	20	6	2.04	12.2
MURD0019	225333	7581062	351	340	-60	60		1	5	4	0.42	1.7
								10	14	4	0.69	2.8
								19	20	1	0.67	0.7
								27	28	1	0.98	1.0
MURD0020	225276	7581095	354	340	-60	60				NSA		NSA
MURD0021	225282	7581074	353	340	-60	66				NSA		NSA
MURD0022	225289	7581055	352	340	-60	60		1	5	4	0.55	2.2
								9	18	9	0.80	7.2
MURD0023	225296	7581039	350	340	-60	78		7	9	2	0.98	2.0
								24	25	1	0.53	0.5
								28	33	5	1.79	8.9
MURD0024	225305	7581019	349	340	-60	84		38	39	1	0.50	0.5
MURD0025	225252	7581053	350	340	-60	60				NSA		NSA
MURD0026	225257	7581035	349	340	-60	66		11	12	1	0.91	0.9
								20	21	1	0.52	0.5
MURD0027	225154	7581019	351	340	-60	60				NSA		NSA
MURD0028	225161	7580999	350	340	-60	66		7	8	1	1.22	1.2
MURD0029	225168	7580980	350	340	-60	78		2	3	1	5.40	5.4
								28	29	1	0.55	0.6
MURD0030	225175	7580966	349	340	-60	96		13	14	1	1.12	1.1
								36	43	7	0.54	3.8
MURD0031	225054	7580950	351	340	-60	66		22	27	5	3.68	18.4
							Incl.	24	25	1	7.98	8.0
MURD0032	225059	7580928	350	340	-60	78		20	21	1	0.87	0.9
MURD0032	225059	7580928	350	340	-60	78		43	49	6	1.58	9.5
MURD0033	225015	7580936	351	340	-60	60		16	20	4	1.93	7.7
MURD0034	225022	7580917	350	340	-60	66		22	23	1	1.30	1.3
								37	43	6	1.32	7.9
MURD0035	224971	7580950	352	340	-60	78				NSA		NSA
MURD0036	224978	7580929	351	340	-60	60		9	13	4	3.90	15.6
							Incl.	10	11	1	5.41	5.4
MURD0037	224982	7580913	352	340	-60	60		6	7	1	0.98	1.0
								15	16	1	2.15	2.2
MURD0038	224992	7580891	351	340	-60	72		7	8	1	1.58	1.6
								43	44	1	0.74	0.7
MURD0039	224938	7580919	353	340	-60	66		7	9	2	1.11	2.2
MURD0040	224944	7580900	352	340	-60	60		7	8	1	0.50	0.5
								15	18	3	1.91	5.7
MURD0041	224897	7580914	353	340	-60	66				NSA		NSA
MURD0042	224905	7580896	353	340	-60	72				NSA		NSA

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
MURD0043	224785	7580924	359	340	-60	60				NSA		NSA
MURD0044	224791	7580906	356	340	-60	66				NSA		NSA
MURD0045	224798	7580889	355	340	-60	66		16	17	1	0.64	0.6
MURD0046	224806	7580866	354	340	-60	90				NSA		NSA
MURD0047	224646	7580896	357	340	-60	60		4	7	3	1.33	4.0
MURD0048	224654	7580878	357	340	-60	72		18	21	3	2.70	8.1
MURD0049	224661	7580860	357	340	-60	72		17	18	1	0.62	0.6
								27	31	4	0.50	2.0
MURD0050	224668	7580842	357	340	-60	66		17	18	1	0.52	0.5
								23	24	1	0.60	0.6
								34	38	4	0.85	3.4
MURD0051	224516	7580848	359	340	-60	66		0	1	1	0.52	0.5
MURD0052	224524	7580832	358	340	-60	60				NSA		NSA
MURD0053	224481	7580824	359	340	-60	60				NSA		NSA
MURD0054	224489	7580808	358	340	-60	72				NSA		NSA
MURD0055	224436	7580829	361	340	-60	60		3	7	4	0.49	2.0
MURD0056	224443	7580810	359	340	-60	60				NSA		NSA
MURD0057	224450	7580793	358	340	-60	60				NSA		NSA
MURD0058	224458	7580775	358	340	-60	60				NSA		NSA
MURD0059	224408	7580787	359	340	-60	60		11	13	2	2.93	5.9
MURD0060	224417	7580770	358	340	-60	60				NSA		NSA
MURD0061	224917	7580910	353	340	-60	24				NSA		NSA
MURD0062	224924	7580891	353	340	-60	36		7	8	1	0.60	0.6
MURD0063	224930	7580872	352	340	-60	54		35	36	1	0.86	0.9
MURD0064	224951	7580881	352	340	-60	48				NSA		NSA
MURD0065	224955	7580924	352	340	-60	24		11	13	2	2.51	5.0
MURD0066	224963	7580903	352	340	-60	42		16	17	1	0.63	0.6
MURD0067	224969	7580886	352	340	-60	66		31	32	1	2.15	2.2
MURD0068	224994	7580938	352	340	-60	24		7	9	2	2.05	4.1
MURD0069	225000	7580919	351	340	-60	42		25	32	7	2.27	15.9
							Incl.	27	28	1	5.29	5.3
MURD0070	225007	7580901	351	340	-60	60		35	37	2	1.14	2.3
MURD0071	225032	7580951	351	340	-60	24		8	10	2	1.77	3.5
MURD0072	225037	7580934	351	340	-60	48		9	13	4	0.76	3.0
								27	32	5	2.01	10.1
MURD0073	225044	7580913	351	340	-60	66		29	30	1	0.62	0.6
								46	53	7	2.63	18.4
							Incl.	50	51	1	11.20	11.2
MURD0074	225069	7580964	351	340	-60	30				NSA		NSA
MURD0075	225076	7580947	351	340	-60	48		10	11	1	0.69	0.7
MURD0076	225083	7580929	350	340	-60	66		31	35	4	0.78	3.1
								49	51	2	1.86	3.7
MURD0077	225088	7580971	351	340	-60	30		2	4	2	4.09	8.2
							Incl.	3	4	1	7.11	7.1
MURD0078	225094	7580953	350	340	-60	48		23	30	7	1.71	12.0
MURD0079	225101	7580934	350	340	-60	66		43	49	6	3.95	23.7
							Incl.	45	47	2	10.13	20.3

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
MURD0080	225105	7580979	350	340	-60	30		0	5	5	1.87	9.4
MURD0081	225114	7580960	350	340	-60	48		25	27	2	7.21	14.4
							Incl.	25	26	1	11.35	11.4

Appendix 4 – Table of significant results for Little Wonder and Roscoes Reward

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
CCRD0001	222975	7580220	367	360	-60	54				NSA		NSA
CCRD0002	222977	7580200	367	360	-60	54		0	1	1	0.59	0.6
CCRD0003	222976	7580178	366	360	-60	54		48	49	1	1.05	1.0
CCRD0004	222976	7580159	366	360	-60	54		44	45	1	0.85	0.9
CCRD0005	222976	7580137	365	360	-60	54				NSA		NSA
CCRD0006	222973	7580117	364	360	-60	54				NSA		NSA
CCRD0007	222977	7580094	365	360	-60	60				NSA		NSA
CCRD0008	222978	7580076	365	360	-60	54				NSA		NSA
CCRD0009	222978	7580057	365	360	-60	60				NSA		NSA
CCRD0010	222978	7580038	365	360	-60	54				NSA		NSA
CCRD0011	222979	7580019	367	360	-60	54				NSA		NSA
CCRD0012	222978	7579998	368	360	-60	54				NSA		NSA
CCRD0013	222979	7579979	370	360	-60	54				NSA		NSA
CCRD0014	223138	7580157	365	360	-60	54				NSA		NSA
CCRD0015	223138	7580136	364	360	-60	54				NSA		NSA
CCRD0016	223139	7580116	363	360	-60	54				NSA		NSA
CCRD0017	223139	7580095	364	360	-60	54				NSA		NSA
CCRD0018	223138	7580076	363	360	-60	54				NSA		NSA
CCRD0019	223135	7580055	363	360	-60	54				NSA		NSA
CCRD0020	223136	7580035	364	360	-60	60				NSA		NSA
CCRD0021	223136	7580014	364	360	-60	54		10	11	1	0.67	0.7
CCRD0022	223137	7579995	365	360	-60	60				NSA		NSA
CCRD0023	223137	7579974	364	360	-60	54				NSA		NSA
CCRD0024	223138	7579955	364	360	-60	54				NSA		NSA
CCRD0025	223139	7579933	364	360	-60	54		17	18	1	0.50	0.5
CCRD0026	223139	7579915	365	360	-60	66		27	29	2	0.78	1.6
CCRD0027	223137	7579893	364	360	-60	54		13	14	1	0.55	0.6
CCRD0029	223248	7580121	362	360	-60	18		4	5	1	0.56	0.6
CCRD0030	223248	7580100	361	360	-60	42		27	32	5	0.73	3.7
CCRD0031	223247	7580080	361	360	-60	66		24	25	1	0.71	0.7
								49	50	1	0.65	0.6
CCRD0032	223250	7580053	362	360	-60	80		62	73	11	1.81	19.9
CCRD0033	223297	7580037	363	360	-60	54				NSA		NSA
CCRD0034	223297	7580018	364	360	-60	54				NSA		NSA
CCRD0035	223298	7579998	363	360	-60	54		21	22	1	1.21	1.2
CCRD0036	223298	7579978	363	360	-60	54		51	52	1	2.10	2.1
CCRD0037	223298	7579955	362	360	-60	54		1	4	3	2.30	6.9
CCRD0038	223299	7579936	361	360	-60	54		24	33	9	0.93	8.4
CCRD0039	223299	7579915	360	360	-60	60		47	51	4	1.55	6.2

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
CCRD0040	223299	7579893	360	360	-60	54				NSA		NSA
CCRD0041	223300	7579881	360	360	-60	54				NSA		NSA
CCRD0042	223300	7579853	361	360	-60	54		11	12	1	0.61	0.6
								16	17	1	0.56	0.6
								29	30	1	3.03	3.0
CCRD0043	223297	7579834	361	360	-60	54		0	1	1	0.50	0.5
								50	51	1	0.50	0.5
CCRD0044	223297	7579816	362	360	-60	54		44	48	4	11.66	46.6
							Incl.	45	46	1	43.10	43.1
CCRD0045	223298	7579793	362	360	-60	54				NSA		NSA
CCRD0046	223298	7579768	363	360	-60	54				NSA		NSA
CCRD0047	223299	7579750	363	360	-60	54				NSA		NSA
CCRD0048	223299	7579735	363	360	-60	54				NSA		NSA
CCRD0049	223299	7579715	364	360	-60	54				NSA		NSA
CCRD0050	223298	7579694	366	360	-60	54		25	26	1	1.24	1.2
CCRD0051	223299	7579672	368	360	-60	54		23	24	1	0.65	0.6
CCRD0052	223460	7580021	359	360	-60	54		17	18	1	0.55	0.6
CCRD0053	223457	7580004	360	360	-60	54		26	30	4	0.83	3.3
CCRD0054	223461	7579977	364	360	-60	54		10	11	1	0.70	0.7
CCRD0055	223461	7579959	364	360	-60	54		26	27	1	0.88	0.9
CCRD0056	223462	7579938	364	360	-60	54		0	2	2	1.07	2.1
CCRD0057	223461	7579919	364	360	-60	54		0	1	1	0.57	0.6
CCRD0058	223462	7579899	364	360	-60	54		0	2	2	0.81	1.6
CCRD0059	223462	7579880	364	360	-60	66		60	62	2	0.69	1.4
CCRD0060	223462	7579858	364	360	-60	54				NSA		NSA
CCRD0061	223461	7579839	365	360	-60	54		25	27	2	0.70	1.4
CCRD0062	223461	7579820	365	360	-60	54				NSA		NSA
CCRD0063	223461	7579800	365	360	-60	54				NSA		NSA
CCRD0064	223479	7579781	364	360	-60	54		9	15	6	1.33	8.0
CCRD0065	223479	7579760	361	360	-60	54		27	35	8	1.31	10.5
CCRD0066	223479	7579738	361	360	-60	54		2	9	7	0.95	6.7
								23	24	1	0.64	0.6
								31	38	7	1.38	9.7
CCRD0067	223478	7579719	361	360	-60	54		19	24	5	2.42	12.1
								31	43	12	1.59	19.1
							Incl.	31	32	1	9.44	9.4
								51	53	2	0.98	2.0
CCRD0068	223479	7579696	362	360	-60	54		34	49	15	2.02	30.3
							Incl.	36	37	1	8.27	8.3
CCRD0069	223479	7579677	362	360	-60	66		46	63	17	1.42	24.1
							Incl.	46	47	1	5.42	5.4
CCRD0071	223540	7579990	362	360	-60	54				NSA		NSA
CCRD0072	223540	7579970	362	360	-60	54		17	21	4	1.22	4.9
								17	21	4	1.22	4.9
								35	36	1	0.65	0.6
								35	36	1	0.65	0.6
CCRD0073	223538	7579948	364	360	-60	54		24	30	6	1.14	6.8

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
CCRD0074	223538	7579929	364	360	-60	54		29	30	1	1.07	1.1
								33	37	4	0.98	3.9
CCRD0075	223538	7579908	364	360	-60	54		40	47	7	1.37	9.6
CCRD0076	223535	7579889	364	360	-60	54		0	1	1	0.63	0.6
								52	53	1	1.28	1.3
CCRD0077	223539	7579869	364	360	-60	54		14	15	1	0.61	0.6
								24	25	1	2.51	2.5
CCRD0078	223537	7579846	363	360	-60	60		32	33	1	1.64	1.6
CCRD0079	223538	7579827	364	360	-60	54				NSA		NSA
CCRD0080	223537	7579806	363	360	-60	54				NSA		NSA
CCRD0081	223539	7579784	360	360	-60	54		33	34	1	0.76	0.8
CCRD0082	223538	7579768	361	360	-60	54				NSA		NSA
CCRD0083	223539	7579744	363	360	-60	60				NSA		NSA
CCRD0084	223536	7579727	364	360	-60	54		44	45	1	2.35	2.3
CCRD0085	223536	7579706	364	360	-60	54		5	9	4	2.87	11.5
CCRD0086	223538	7579687	363	360	-60	54		13	16	3	1.04	3.1
								22	24	2	0.97	1.9
								27	28	1	0.50	0.5
CCRD0087	223538	7579666	364	360	-60	54		39	40	1	0.84	0.8
CCRD0108	223439	7579694	363	360	-60	60		29	30	1	1.02	1.0
								46	50	4	0.67	2.7
CCRD0109	223438	7579681	364	360	-60	60		55	60	5	1.09	5.5
CCRD0110	223461	7579769	364	360	-60	54				NSA		NSA
CCRD0111	223461	7579758	363	360	-70	54		7	8	1	0.75	0.8
CCRD0113	223459	7579698	362	360	-60	66		38	41	3	1.31	3.9
								45	52	7	0.76	5.3
								55	64	9	1.39	12.5
CCRD0114	223459	7579680	362	360	-60	60		39	44	5	1.64	8.2
								49	60	11	1.25	13.8
CCRD0115	223480	7579769	363	360	-60	54		3	4	1	0.51	0.5
								12	15	3	0.54	1.6
								22	25	3	1.18	3.5
								30	31	1	0.66	0.7
								34	38	4	1.41	5.6
CCRD0116	223477	7579753	361	360	-60	54		7	8	1	0.69	0.7
								32	36	4	1.80	7.2
								42	43	1	0.55	0.6
CCRD0117	223479	7579727	361	360	-60	60		12	14	2	5.84	11.7
							Incl.	12	13	1	9.12	9.1
								35	38	3	0.58	1.7
CCRD0118	223478	7579706	362	360	-60	60		27	48	21	1.86	39.1
CCRD0119	223479	7579686	362	360	-60	60		38	47	9	2.18	19.6
								51	54	3	0.46	1.4
CCRD0120	223500	7579800	365	360	-60	54		3	4	1	1.10	1.1
CCRD0121	223500	7579780	364	360	-60	54		6	8	2	0.85	1.7
								14	16	2	1.23	2.5
								26	27	1	0.63	0.6

Hole_ID	GDA East	GDA North	RL	Azi	Dip	Depth (m)		From (m)	To (m)	Width (m)	Grade (g/t Au)	Gram-metres
CCRD0122	223500	7579761	360	360	-60	54		0	3	3	3.58	10.7
							Incl.	0	1	1	6.46	6.5
								10	23	13	0.65	8.4
								27	33	6	0.67	4.0
								37	38	1	0.68	0.7
								50	51	1	0.55	0.6
CCRD0123	223501	7579739	362	360	-60	54				NSA		NSA
CCRD0124	223501	7579718	363	360	-60	54		8	19	11	2.86	31.5
							Incl.	10	11	1	14.35	14.4
CCRD0125	223500	7579698	363	360	-60	54		25	32	7	0.91	6.4
CCRD0126	223499	7579678	364	360	-60	54		40	44	4	0.77	3.1
CCRD0127	223499	7579659	364	360	-60	66		45	55	10	1.98	19.8
CCRD0128	223520	7579798	364	360	-60	54		0	1	1	0.79	0.8
								29	37	8	0.80	6.4
								51	52	1	1.10	1.1
CCRD0129	223520	7579777	361	360	-60	54		7	8	1	0.55	0.6
								19	22	3	6.38	19.1
							Incl.	19	20	1	17.75	17.8
CCRD0130	223521	7579758	361	360	-60	54		46	47	1	0.58	0.6
CCRD0131	223521	7579739	362	360	-60	60		14	15	1	1.14	1.1
CCRD0132	223520	7579717	364	360	-60	54		2	11	9	1.05	9.4
								42	44	2	0.70	1.4
CCRD0133	223520	7579698	364	360	-60	54		13	21	8	1.41	11.3
								25	26	1	1.02	1.0
								38	39	1	1.32	1.3
CCRD0134	223519	7579677	365	360	-60	54		26	36	10	0.98	9.8
CCRD0135	223519	7579658	364	360	-60	60		53	54	1	0.66	0.7
CCRD0136	223538	7579697	364	360	-60	66		8	16	8	1.31	10.5
								36	37	1	1.44	1.4
								60	62	2	1.08	2.2
CCRD0137	223538	7579675	364	360	-60	60		21	23	2	0.90	1.8
								35	36	1	0.62	0.6
CCRD0138	223557	7579719	362	360	-60	60		45	46	1	0.51	0.5
								49	50	1	2.35	2.3
CCRD0139	223558	7579698	362	360	-60	54		6	12	6	2.34	14.0
								43	50	7	0.84	5.9
CCRD0140	223558	7579680	362	360	-60	66		14	21	7	0.89	6.2
								25	26	1	1.48	1.5
								32	34	2	1.10	2.2
CCRD0141	223559	7579659	363	360	-60	60		50	54	4	0.85	3.4
CCRD0142	223441	7579718	357	360	-70	42		26	30	4	1.00	4.0
CCRD0143	223469	7579715	361	360	-60	54		24	27	3	2.17	6.5
								51	52	1	0.72	0.7
CCRD0144	223469	7579703	361	360	-60	54		32	38	6	2.10	12.6
CCRD0145	223468	7579684	361	360	-60	54		45	53	8	2.08	16.6

JORC 2012 Edition - Table 1

Section 1 Sampling Techniques and Data

Criteria	JORC Code Explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representatively and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.*	• *No surface samples were used in any estimation of Mineral Resources or Ore Reserves.* • *Sampling at Daisy Central, Hopetoun-Endeavour, Mustang and Roscoes to Little Wonder was carried out using the Reverse Circulation (RC) drilling.* • *Standard samples were inserted to the sampling stream at a ratio of 1:50.* • *RC drilling was carried out with a 5.25 inch face-sampling bit, 1m samples collected through a cyclone and cone splitter to form a 2 – 3kg sub-sample. All sub-samples were fully pulverised at the laboratory to >85% passing – 75um, to produce a 50g charge for Fire Assay with AAS finish.*
Drilling techniques	• *Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	• *Reverse circulation (RC) drilling was carried out with a 5.25 inch face-sampling bit.*
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *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.*	• *A record of the RC sample recovery and moisture content was recorded by on rig geologists. Overall sample weight and quality were good to very good (1.5-3.0 kg).* • *ALS records sample weights on receipt of samples. This was used to help track sample weights.* • *There is no observed correlation between sample recovery and gold grade.*
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	• *All of the drilling has been captured in chip trays.* • *Geological logging is both qualitative and quantitative in nature. Logging is carried out for lithology, colour, grain size, regolith, alteration, weathering, veining and mineralisation. Sulphide and vein content were logged as a percentage of the interval.* • *RC chip trays are retained at site.* • *All of the intersections were logged.*

Criteria	JORC Code Explanation	Commentary
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *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.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	• *The recent 1 metre RC samples were split using a rig mounted cone splitter. The vast majority of the samples were dry with moist and wet samples were recorded.* • *The sample sizes are industry-standard and considered to be appropriate to correctly represent mineralisation at the deposits based on: the style of mineralisation, the thickness and consistency of the intersections, the sampling methodology and assay ranges for gold.* • *Field duplicates were taken from the second aperture of the cone splitter at a rate of 1 in 50 with additional field duplicates taken in the expected mineralised zones.*
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.* • *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.* • *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.*	• *The industry best practice standard assay method of 50g charge Fire Assay with AAS finish was used to determine total Au content.* • *Commercially prepared, predominantly matrix-matched low, medium & high value certified reference QAQC standards were inserted at a rate of 1:50 into the sample stream.* • *The QAQC results from this protocol were considered to be acceptable.* • *No geophysical tools were used to determine any element concentrations used for these results.* • *Sample preparation checks for fineness were carried out by the laboratory as part of their internal procedures to ensure the grind size of 85% passing 75 micron was being attained. Laboratory QAQC involves the use of internal lab standards using certified reference material, blanks, splits and replicates as part of the in house procedures.* • *Results highlight that sample assay values are accurate.*
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* • *Discuss any adjustment to assay data.*	• *Intersections were checked by alternative company personnel to check they were reported correctly.* • *No twin holes were drilled in the programme. Previous significant intersections were verified with close spaced drilling.* • *Sampling is directly uploaded to the Logchief software and it is synchronised to the SQL database.* • *Assay results were not adjusted.*
Location of data points	• *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used*	• *Post completion of the drilling the RC collars were surveyed with a Real Time Kinematic (RTK) DGPS device to a ±10mm positional precision. All collars are*

Criteria	JORC Code Explanation	Commentary
	in Mineral Resource estimation. • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	*then validated against planned positions as a cross check. Surveyed collar co-ordinates are uploaded into the Company SQL database.* • *Grid datum is GDA94 51K (East Pilbara).* • *Downhole surveys were completed on all holes at 30m maximum downhole intervals with a preference of an initial survey at ~12m downhole. Surveys were taken using a single shot camera or via electronic multi-shot survey tool (Reflex, Camprodual or Camteq), lithologies have negligible magnetic susceptibility (greywacke). Re-surveying was carried out to check the quality of measurements.* • *Aerial Photogrammetry± LIDAR was produced by Fugro Surveys (±0.2m vertical & ±0.1m horizontal). Survey control points were marked out by licensed surveyor for the Fugro Survey. An error was noted in early RC drilling collar RL co-ordinates (ellipsoid not geoid model); these holes were adjusted to the Fugro DTM surface RL and recorded as DTM RL in the SQL database; the original survey RL was retained. Otherwise there was good agreement of surveyed collars and Fugro DTM.*
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *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.* • *Whether sample compositing has been applied.*	• *RC drilling varied from 160m X 20m to 20m X 10m.* • *Thus far the drill spacing has been sufficient to establish geological and grade continuity.* • *None of the reported sample intervals were composited. In previous resource estimates some >1m RC assay composites were used. A small number of core composites were retained with a length of less than 1m (minimum 0.3m).*
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.* • *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.*	• *Geological mapping and structural measurements have been taken at Daisy Central, Hopetoun North – Endeavour, Mustang and Roscoes to Little Wonder that largely confirm the interpreted orientation of mineralisation as defined by the drilling. Based upon the above information the drilling was largely perpendicular to the mineralisation.* • *No significant orientation bias has been identified in the data at this point.*
Sample security	• *The measures taken to ensure sample security.*	• *Samples were given an ID, cross checked by field personnel that they corresponded to the assigned interval. Samples were collected on completion of each hole and delivered to the onsite assay laboratory for dispatch to Perth. Monitoring of sample dispatch is undertaken for samples sent from site and to confirm that samples have arrived in their entirety and intact at their destination.* • *Sample security is managed with dispatch dates noted for each samples by the technician, this is checked and confirmed at the Perth laboratory on receipt of*

Criteria	JORC Code Explanation	Commentary
		samples and discrepancies are corrected via telephone link up with the on-site and Perth laboratories.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data reviews.*	• *Internal lab audits conducted by Millennium have shown no material issues.*

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code Explanation	Commentary
Mineral tenement and land tenure status	• *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	• *All the deposits and prospects lie within fully granted Mining Leases within the Pilbara Gold Field (46), as detailed below. All the tenements are in good standing with no known impediments.* • *Daisy Central*[@] - M46/166 (100% MML);* • *Endeavour*[@] - M46/442 (100% MML);* • *Hopetoun North*[@] - M46/57 (100% MML);* • *Mustang*[@] - M46/166 (100% MML);* • *Rosocoes to Little Wonder* – M46/166[@], M46/442[@], M46/198[+], M46/146[+] (100% MML).* **These tenements are located within the Njamal title claim (WC99/8).* *^ These tenements are located within the Palyku title claim (WC99/16).* *[+] A $10/oz royalty payable to Tyson Resources Pty Ltd.* *[@] M46/57, M46/166 & M46/442 (100% MML) –gross revenue royalty of 6.44% payable to Royalty Stream Investments (WA Gold) Pty Ltd for up to 20koz then it reverts to 1.5% rate for gold mined beyond 20koz ;*
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	• *Exploration by other parties has been reviewed and taken into account when exploring. Previous RAB & RC drilling. Millennium has re-drilled in areas that other parties had drilled to gain a greater confidence in those results.*
Geology	• *Deposit type, geological setting and style of mineralisation.*	• *The Nullagine Project deposits are structurally controlled, sediment hosted, lode Au style of deposit. They are all situated in the Mosquito Creek Basin that consists predominantly of Archean aged, turbidite sequences of sandstones, siltstones and shales.*

Criteria	JORC Code Explanation	Commentary

Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*
	  ○ *easting and northing of the drill hole collar*
	  ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*
	  ○ *dip and azimuth of the hole*
	  ○ *down hole length and interception depth*
	  ○ *hole length.*
	• *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.*
		• *Provided in a table that relates exploration results to the drill hole information including: hole co-ordinates, RL, dip, azimuth, end of hole depth, downhole length and interception depths.*
		• *All of the current drilling with results returned has been reported.*

Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.* • *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.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	• *All of the exploration prospects have their significant intersections reported with a lower cut-off of 0.5g/t Au and maximum of two consecutive metres of internal dilution. Higher grade intersections use a lower cut-off of 5g/t Au and maximum of two consecutive metres internal dilution.* • *All samples reported were one metre in length. Thus no aggregation methods were required to derive intersections.* • *No metal equivalents were used.*
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').*	• *Only selected previous exploration data related to the included targets and prospects are presented.* • *The relationships between the quoted intersections are shown on the relevant cross-sections within the release. Most of the drilling is orthogonal to the mineralisation; however, in early exploration the dip direction is sometimes uncertain and thus holes some holes can be drilled sub-parallel to the mineralisation producing longer and higher grade intersection than the true intercept. Quoted widths are down-hole widths. The drill hole orientations relative to the ore zones have ensured accurate interpretations and 3D modelling.*
Diagrams	• *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	• *Significant exploration results are tabulated in the release with drill hole plans to show them in context.* • *Representative maps have been included in the report along with documentation.*

Criteria	JORC Code Explanation	Commentary
Balanced reporting	• *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	• *All of the current drill results for the project have been reported.*
Other substantive exploration data	• *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	• *The outcrops of quartz veins have been previously mapped at , Daisy Central, Hopetoun North -– Endeavour, Mustang and Roscoes to Little Wonder. The mineralisation at these prospects is primarily associated with a combination of quartz veining, moderate foliation, strong sericite alteration and strong limonite staining or pyrite content.*
Further work	• *The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	• *Additional RC drilling is planned at Mustang for inclusion in a Mineral Resource Estimate. Further RC drilling is planned on the Hopetoun – Endeavour trend at Red Ensign to infill to 20m X 20m.*