

## ASX ANNOUNCEMENT

# Drilling and results update – Jubilee Reef Gold Project, Northern Tanzania

*New drilling program underway following receipt of final results from June-July program*

## Highlights

- Drilling in the Central Zone reports intersections including:
  - 21m @ 4.66g/t gold from 70m in JBRR041; and
  - 68m @ 1.5g/t gold from 132m in JBRR066.
- Anomalous gold mineralisation within the Central Zone is outlined over a 600mx 350m area, open to the north and east under cover;
- Results from the Southern Zone include 20m @ 2.33g/t gold from 12m and 23m @ 2.93g/t gold from 50m in JBRR042, potentially open across 450m of strike; and
- A new 14,000m drilling program has commenced, with an Aircore rig starting on the 25 August and an RC rig due in early September.

## Investment Highlights

- Large gold system identified at Jubilee Reef JV in northern Tanzania. Second drill program for 2012 has commenced.
- Large land position (>5,000km<sup>2</sup>) in North Queensland precious metals province with further drilling planned by JV partner.

Liontown Resources Limited (ASX: LTR) is pleased to advise that a new program of drilling is underway at its flagship **Jubilee Reef Gold Project** in Northern Tanzania (Figure 1) following receipt of final outstanding results from its June-July 2012 drilling program.

Results from a series of “cross-holes” (drilled at 90° to the original drill lines, shown in Figure 2) in the Central Zone at the Masabi Hill prospect – designed to confirm the orientation of previously reported mineralised intersections – returned up to 21m @ 1.24g/t gold from 35m and 13m @ 1.43g/t gold from 110m within broad lower grade envelopes of 62m @ 0.75g/t gold from 1m and a further 40m @ 0.86g/t gold from 110m.

The “cross holes” suggest the Central Zone mineralisation forms a pipe like structure with a steep easterly dip and a steep southerly plunge.

Drilling in the Central Zone has previously defined a zone of mineralisation (shown in plan in Figure 2 and cross section in Figures 3 and 4) including:

- 27m @ 2.76g/t gold from 42m in JBRR018 (drilled in 2011);
- 21m @ 4.66g/t gold from 70m in JBRR041 (this program); and
- 68m @ 1.5g/t gold from 132m in JBRR061 (this program).

Diamond drill hole JBRDD001, located between JBRR018 and JBRR041 reported an intercept of 87.25m @ 0.94g/t gold (Figures 3 and 4), including an interval of 28.8m @ 1.14g/t gold from 63.5m, and 1m @ 10.05g/t gold from 60.75m. All drill results are summarised in Appendix 1.

RC drilling on the Southern Zone, targeting anomalous aircore results from the 2011 program, reported results including 20m @ 2.33g/t gold from 12m and 23m @ 2.93g/t gold from 50m, all within a zone of 74m @ 1.8g/t gold from 8m (Figure 5).

Results from JBRDD002, a diamond drill hole located behind JBRR045, reported several zones of anomalous gold, including low grade envelopes of 23.4m @ 0.34g/t gold from 17.2m, 15.2m @ 0.37g/t gold from 59.3m, and 15.78m @ 1.36g/t gold from 77.22m (Figure 5). While the diamond drill hole grades are lower than the original grades in JBRR045, the geology and mineralised envelopes match those in the original hole, suggesting a shallow south dip, with the structure open along strike.

Further work is required to resolve the variation in grade between the diamond drill holes and neighbouring RC holes, including further drilling to constrain geological and orientation factors.

A fence of RC drill holes was completed across the "Eastern Margin" (shown in Figure 2), testing beneath significant aircore intersections reported in 2011. Gold results confirm the extensive gold anomalism in the system, including 64m @ 0.4g/t gold from 28m in JBRR073; 60m @ 0.56g/t gold from 12m in JBRR074, and 68m @ 0.29g/t gold from 12m in JBRR075. These intersections are hosted in syenitic, dioritic and doleritic rocks.

The results of the initial 2012 drill program suggest that, within the Central Zone syenite and marginal diorite, a gold mineralised envelope is defined over an area of 600 x 350m, which remains open to the east and north under transported cover.

Within the Southern Zone intersections in JBRR045 and JBRDD002, and intersections in aircore hole JLRB581 (12m @ 1.51g/t gold from 16m, reported previously), suggest a mineralised zone that is open over 400m of strike, with only two drill lines testing this zone.

Liontown is encouraged by these latest drilling results, which support previous conclusions that the Jubilee Reef Project has potential to host significant widths and grades of gold mineralisation.

A follow-up 14,000 metre drilling program has commenced, with an aircore drill rig starting on 25 August, and an RC rig expected in early September.



David Richards  
Managing Director  
29 August 2012

The information in this report that relates to Exploration Results is based on information compiled by Mr John McIntyre, a consultant to Liontown Resources Limited, who is a Member of the Australian Institute of Geoscientists. Mr McIntyre has sufficient experience in the field of activity being reported to qualify as a Competent Person as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves, and consents to the release of information in the form and context in which it appears here.

#### **About Liontown Resources Limited**

Liontown Resources Limited is a gold-focused exploration company exploring the Lake Victoria gold district in Northern Tanzania and in Northern Queensland, both of which host a number of world-class gold deposits and where the potential for further discoveries is high.

Liontown's flagship project in Northern Tanzania is the Jubilee Reef Gold Project where Liontown has a joint venture with Canadian company Currie Rose Resources Inc (TSX.V:CUI) and has the right to earn up to 75% equity in the project.

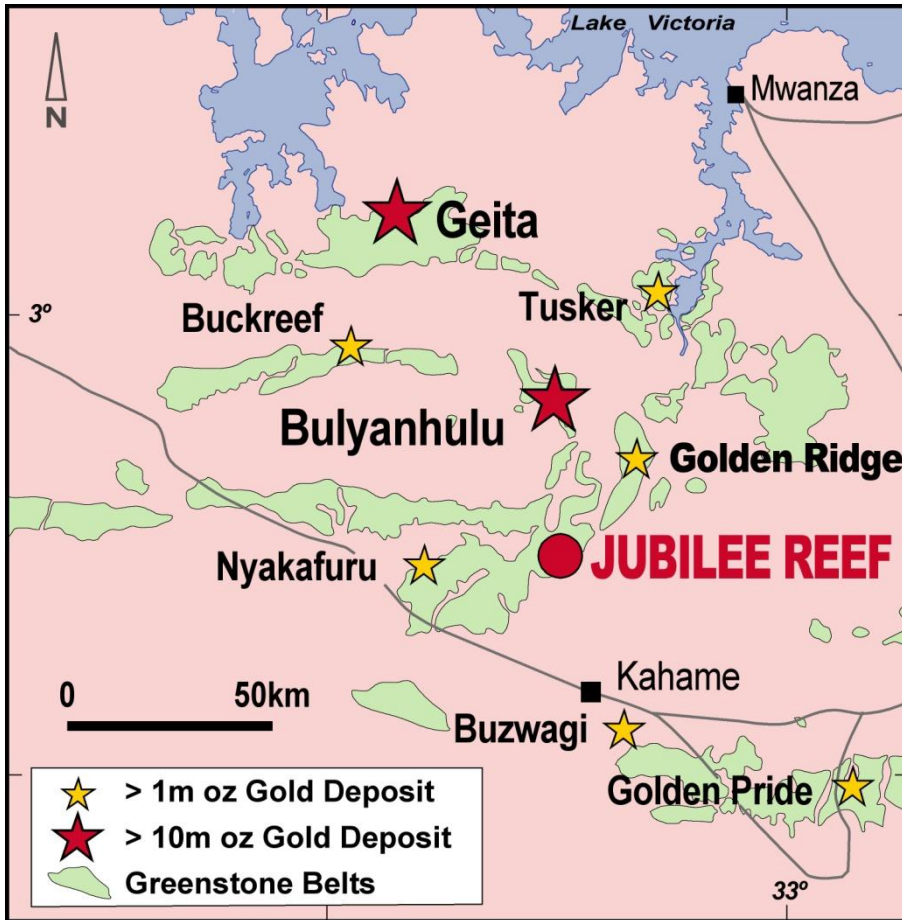


Figure 1: Regional Geological Setting of Jubilee Reef Joint Venture Project in Northern Tanzania

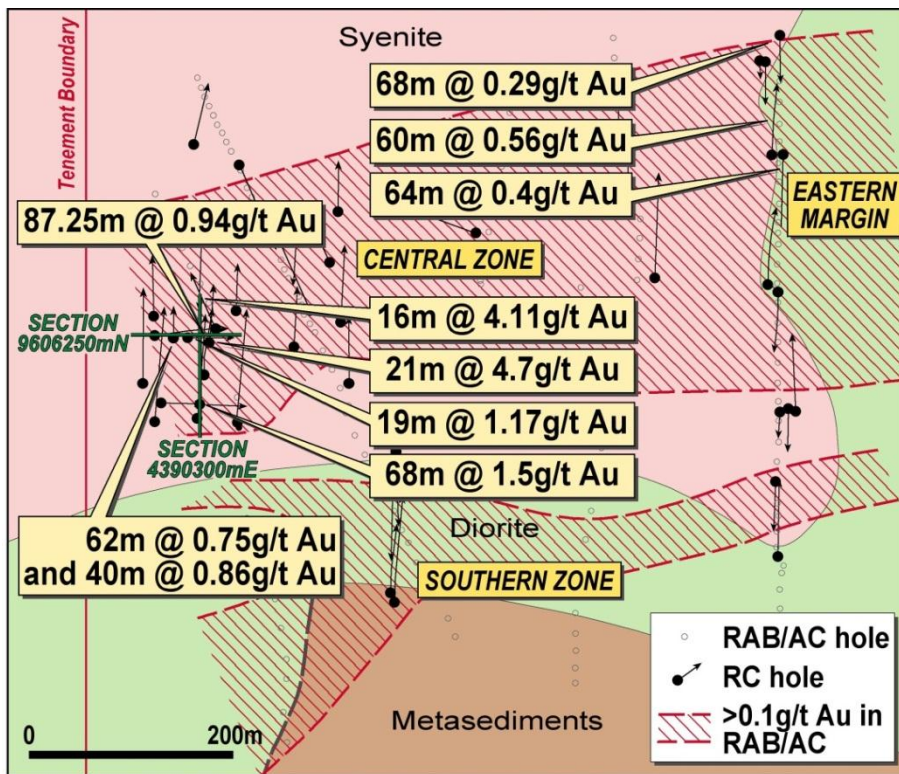


Figure 2: Masabi Hill Prospect – Drill hole plan and significant drill results



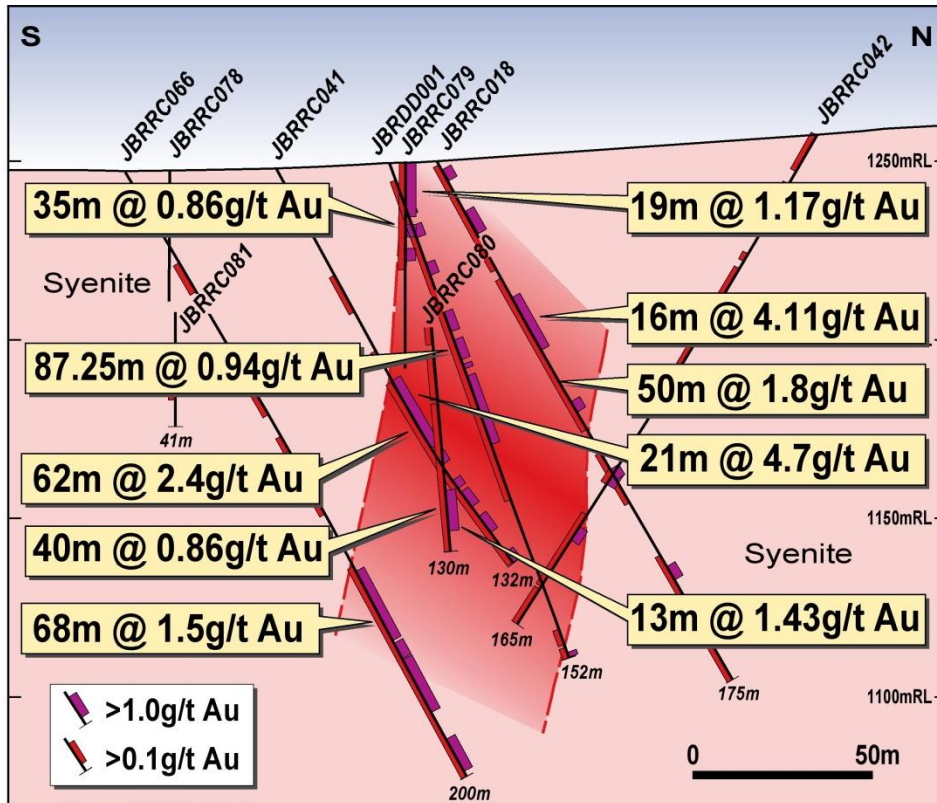


Figure 3: Masabi Hill Prospect – Drill section 439030E, with significant drill results

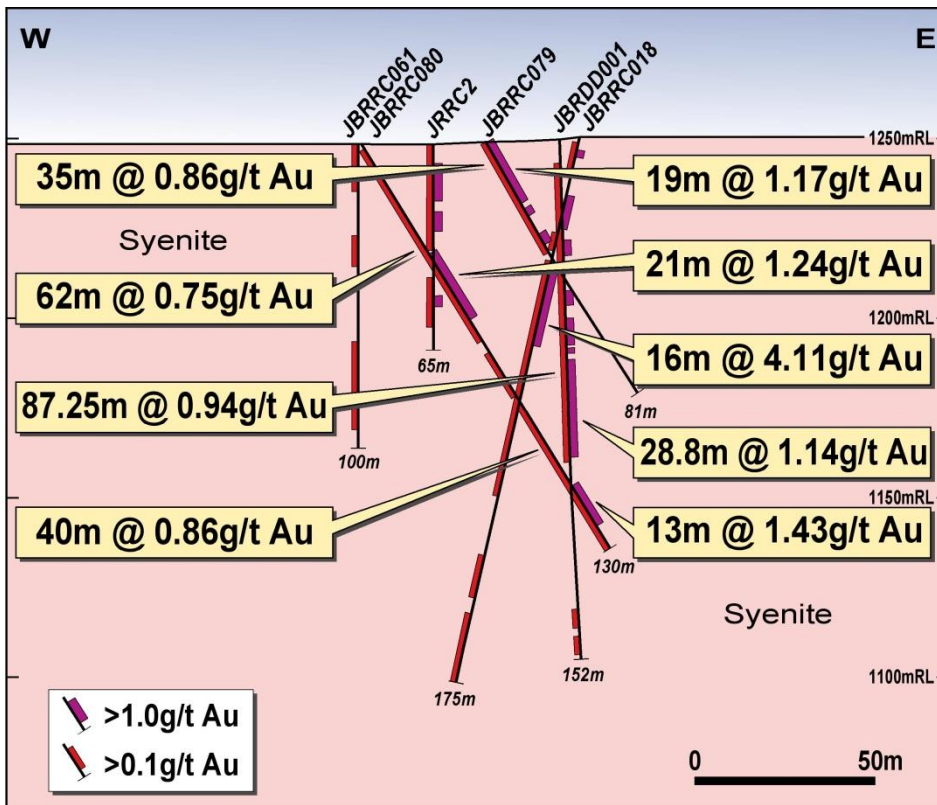


Figure 4: Masabi Hill Prospect – Drill section 9606250mN, with significant results

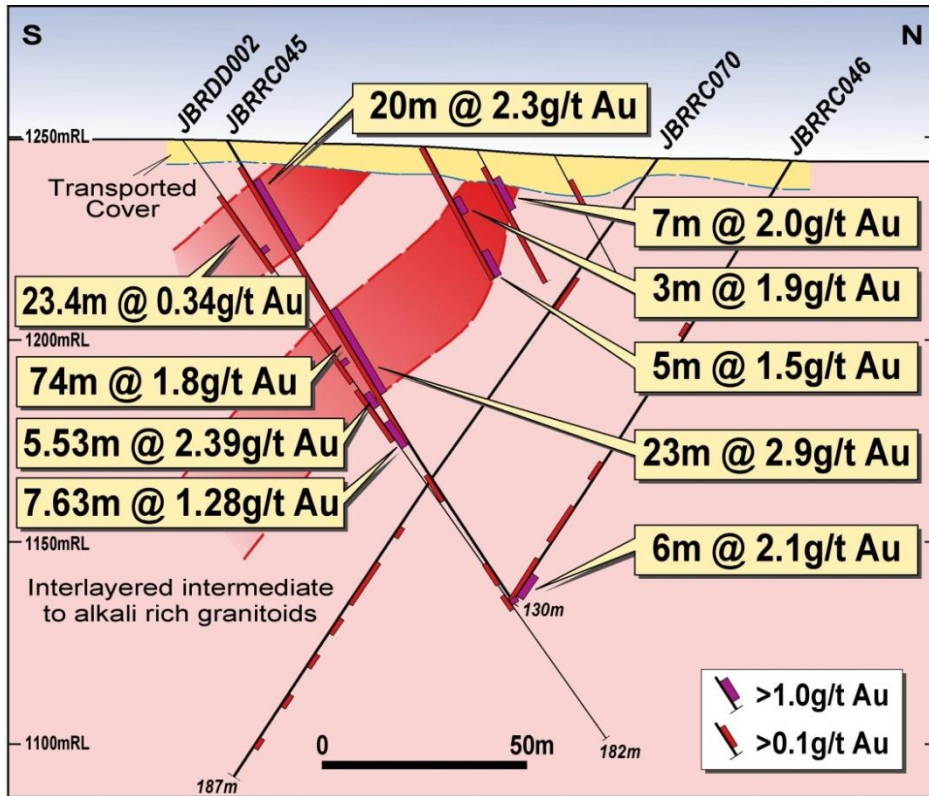


Figure 5: Masabi Hill Prospect – Drill section 439220mE, with significant drill results

**APPENDIX 1: Masabi Hill – RC and Diamond Drilling Statistics**

HOLEID	Easting	Northing	DEPTH	Signifcant Intersections (>0.1g/t Au)				Signifcant Intersections (>0.5g/t Au)			
				From	To	Interval	Grade	From	To	Interval	Grade
JLRR31	439155	9606320	100	3	18	15	0.63	13	17	4	1.14
				20	47	27	0.63	28	33	5	1.59
				62	80	18	0.90	<b>62</b>	<b>73</b>	<b>11</b>	<b>1.12</b>
JLRR9	439019	9606438	125	19	26	7	0.27				
				83	89	6	0.29				
				91	92	1	1.06	91	92	1	1.06
JRRC-1	439300	9606350	98	6	12	6	0.34				
				24	30	6	0.24				
				33	39	6	0.22				
				57	63	6	0.22				
JRRC-2	439000	9606245	65	75	81	6	0.28				
				0	33	33	0.70	<b>6</b>	<b>27</b>	<b>21</b>	<b>0.93</b>
JBRRC018	439042	9606254	175	42	57	13	0.90	48	51	3	3.00
				2	36	34	0.63	4	6	2	1.32
								<b>17</b>	<b>24</b>	<b>7</b>	<b>1.22</b>
								26	29	3	0.98
				40	90	<b>50</b>	<b>1.79</b>	42	69	<b>27</b>	<b>2.76</b>
				80	87	<b>7</b>	<b>1.09</b>				
				99	108	9	0.89	104	107	3	2.24
135	148	13	0.75	138	144	6	1.20				
153	175	22	0.45	153	158	5	1.00				
JBRRC019	439136	9606272	175	<b>0</b>	<b>48</b>	<b>48</b>	<b>1.05</b>	<b>9</b>	<b>46</b>	<b>37</b>	<b>1.30</b>
				60	64	4	0.46				
				68	76	8	0.13				
				88	92	4	0.31				
JBRRC020	439064	9606418	175	97	103	6	0.42				
				107	109	2	1.27	107	109	2	1.27
				128	140	12	0.88	130	131	1	6.28
JBRRC041	439030	9606208	132	148	160	12	0.54				
				35	46	11	0.59	36	44	8	0.74
				<b>70</b>	<b>132</b>	<b>62</b>	<b>2.37</b>	<b>70</b>	<b>91</b>	<b>21</b>	<b>4.66</b>
JBRRC042	439029	9606364	165	94	99	5	1.00	94	99	5	1.00
				<b>102</b>	<b>132</b>	<b>30</b>	<b>1.40</b>				
				3	12	9	0.27				
				17	30	13	0.32				
				40	57	17	0.25				
				66	78	12	0.26				
				86	94	8	0.32				
				110	111	1	0.77				
114	117	3	1.16	114	117	3	1.16				
129	152	23	0.50	133	137	4	1.49				
JBRRC043	439120	9606236	123	154	165	11	0.30				
				0	8	8	0.30	3	4	1	1.20
				40	45	5	0.23				
				48	85	37	0.48	49	55	6	1.08
				99	105	6	0.48	100	102	2	0.96
JBRRC044	439123	9606356	129	112	119	7	0.57	114	115	1	1.65
				11	25	14	0.34				
				<b>29</b>	<b>41</b>	<b>12</b>	<b>1.01</b>	<b>31</b>	<b>36</b>	<b>5</b>	<b>2.08</b>
				18	36	18	0.36	53	55	2	1.28
				66	73	7	0.86	70	72	2	2.38
				80	84	4	0.63	82	83	1	1.41
89	100	11	0.27								
105	111	6	0.18								

**APPENDIX 1 (cont): Masabi Hill – RC and Diamond Drilling Statistics**

HOLEID	Easting	Northing	DEPTH	Significant Intersections (>0.1g/t Au)				Significant Intersections (>0.5g/t Au)			
				From	To	Interval	Grade	From	To	Interval	Grade
JBRR045	439216	9605991	135	<b>8</b>	<b>82</b>	<b>74</b>	<b>1.8</b>	<b>12</b>	<b>32</b>	<b>20</b>	<b>2.33</b>
								<b>50</b>	<b>73</b>	<b>23</b>	<b>2.93</b>
								<b>76</b>	<b>82</b>	<b>6</b>	<b>1.46</b>
				84	86	2	0.58				
				97	104	7	0.44				
JBRR046	439222	9606131	135	124	129	5	0.99	127	128	1	3.65
				48	51	3*	0.3				
				54	57	3	0.66	56	57	1	1.16
				62	66	4*	0.43				
				105	112	7	0.34				
				<b>118</b>	<b>130</b>	<b>12</b>	<b>1.23</b>	<b>122</b>	<b>128</b>	<b>6</b>	<b>2.11</b>
JBRR047	439600	9606027	140	104	107	3	0.19				
				109	112	3	2.11	109	112	3	2.11
JBRR048	439602	9606171	39	Hole abandoned before reaching target depth							
JBRR049	439610	9606176	79	Hole abandoned before reaching target depth							
JBRR050	439617	9606172	130	24	28	4*	0.29				
				52	57	5	1.07	53	57	4	1.25
				86	94	8	1.27	<b>86</b>	<b>92</b>	<b>6</b>	<b>1.59</b>
				125	128	3	0.88	125	127	2	1.15
JBRR051	439477	9606305	190	16	32	16*	0.28	16	20	4*	0.66
				87	92	5	0.44				
				109	112	3	1.55	109	111	2	2.14
				164	168	4*	0.36				
				180	188	4*	0.25				
JBRR052	439451	9606431	120	<b>17</b>	<b>59</b>	<b>42</b>	<b>0.5</b>	<b>18</b>	<b>22</b>	<b>4</b>	<b>1.1</b>
								<b>26</b>	<b>33</b>	<b>7</b>	<b>1.26</b>
				64	88	24*	0.16				
				91	98	7	0.76	93	97	4	1.05
				104	120	16	0.54	117	120	3	1.73
JBRR053	439441	9606506	112	12	16	4	0.36				
				22	28	6	0.68	22	25	3	1.08
				56	59	3	0.52				
				64	71	7	0.4				
JBRR054	439598	9606101	84	23	36	13	0.24	23	24	1	1.02
JBRR061	438980	9606267	100	4	16	12	0.45				
				31	40	9	0.26				
				65	94	29	0.25				
JBRR062	438970	9606201	150	27	71	44	0.43	32	44	12	0.68
								48	49	1	1.39
				74	97	23	0.38	77	86	9	0.55
				99	105	6	0.33				
				111	132	21	0.35				
				134	145	9	0.78	<b>137</b>	<b>144</b>	<b>7</b>	<b>1.1</b>
JBRR063	438983	9606161	200	140	150	10	0.77	141	148	7	0.98
				153	159	6	0.7	154	155	1	2.99
				164	167	3	0.31				
				193	198	5	0.28				
JBRR064	439062	9606273	80	4	12	8	0.44				
				14	32	18	0.43	21	26	5	0.89
				45	66	21	0.62	45	55	10	0.89
JBRR065	439064	9606161	200	15	33	18	0.45	16	17	1	1.1
								27	29	2	1.33

**APPENDIX 1 (cont): Masabi Hill – RC and Diamond Drilling Statistics**

HOLEID	Easting	Northing	DEPTH	Signifcant Intersections (>0.1g/t Au)				Signifcant Intersections (>0.5g/t Au)			
				From	To	Interval	Grade	From	To	Interval	Grade
JBRRC066	439024	9606164	200	12	20	8	0.47	13	15	2	1.24
				31	40	9	0.28				
				64	69	5	0.17				
				75	81	6	0.27				
				89	91	2	1.3	90	91	1	2.48
				110	114	4	0.22				
				<b>132</b>	<b>200</b>	<b>68</b>	<b>1.5</b>	<b>133</b>	<b>161</b>	<b>28</b>	<b>1.95</b>
				<b>162</b>	<b>183</b>	<b>21</b>	<b>1.46</b>				
				<b>186</b>	<b>200</b>	<b>14</b>	<b>1.11</b>				
JBRRC067	439174	9606201	124	67	73	6	0.36	68	70	2	0.89
				78	83	5	0.23				
				85	87	2	0.27				
				93	103	10	0.68	99	103	4	1.22
				113	123	10	0.27				
JBRRC068	439166	9606260	134	3	12	9	0.64	3	6	3	1.47
				14	22	8	0.76	15	20	5	1.03
				27	58	31	0.52	27	34	7	0.83
				75	98	23	0.63	50	52	2	1.23
				<b>86</b>	<b>95</b>	<b>9</b>	<b>1.31</b>				
JBRRC069	439164	9606371	90	36	38	2	0.29				
				54	56	2	0.39				
				86	90	4	0.32				
JBRRC070	439220	9606098	187	123	131	7	0.8	128	131	3	1.6
				150	153	3	0.43				
				175	177	2	0.4				
JBRRC071	439600	9606291	111	8	109	101*	0.35	<b>72</b>	<b>81</b>	<b>9</b>	<b>1.07</b>
JBRRC072	439590	9606298	150	8	24	16*	0.37				
				32	48	16*	1.01	40	44	4*	3.16
				72	88	16*	0.41	76	80	4*	1.06
				<b>120</b>	<b>132</b>	<b>12*</b>	<b>0.98</b>	<b>120</b>	<b>128</b>	<b>8*</b>	<b>1.36</b>
JBRRC073	439604	9606428	129	28	92	64*	0.4	28	40	12*	0.65
								<b>60</b>	<b>68</b>	<b>8*</b>	<b>1.36</b>
JBRRC074	439594	9606428	123	12	72	60*	0.56	28	52	24*	0.93
								56	60	4*	1.1
				80	84	4*	0.59	80	84	4*	0.59
				<b>88</b>	<b>108</b>	<b>20*</b>	<b>1</b>	<b>88</b>	<b>100</b>	<b>12*</b>	<b>1.52</b>
JBRRC075	439601	9606548	87	12	80	68*	0.29	52	56	4*	1.68
JBRRC076	439582	9606522	33	16	33	17*	0.41	Hole abandoned bferore target depth			
JBRRC077	439587	9606521	95	16	56	40*	0.22				
JBRRC078	439027	9606178	80	4	9	5	0.15				
				13	19	6	0.21				
				48	56	8	0.31				
				65	77	12	0.35				
JBRRC079	439015	9606245	81	0	35	35	0.87	1	20	19	1.17
								22	24	2	0.86
								30	33	3	1.31
				67	81	14	0.56				
JBRRC080	438982	9606247	130	1	63	62	0.75	<b>35</b>	<b>56</b>	<b>21</b>	<b>1.24</b>
				67	81	14	0.27				
				83	87	4	0.41				
				89	129	40	0.86	<b>110</b>	<b>123</b>	<b>13</b>	<b>1.43</b>
JBRRC081	438988	9606180	81	1	15	14	0.18				
				31	45	14	0.49	32	33	1	1.53
				62	73	11	0.2				

\* 3-4m composite samples



**APPENDIX 1 (cont): Masabi Hill – RC and Diamond Drilling Statistics**

HOLEID	Easting	Northing	DEPTH	Significant Intersections (>0.1g/t Au)				Significant Intersections (>0.5g/t Au)			
				From	To	Interval	Grade	From	To	Interval	Grade
JBRDD001	439036	9606240	152	<b>7.05</b>	<b>94.3</b>	<b>87.25</b>	<b>0.94</b>	11	16	5	0.85
								18	22	4	1.32
								29	32.8	3.8	0.98
								43.7	49.7	6	1.22
								51.7	59.6	7.9	1.05
								60.75	61.75	1	10.05
								<b>63.5</b>	<b>92.3</b>	<b>28.8</b>	<b>1.14</b>
JBRDD002	439220	9605980	182	17.2	40.6	23.4	0.34	33.95	34.95	1	1.6
				59.3	74.5	15.2	0.37	69	70	1	1.49
				<b>77.22</b>	<b>93</b>	<b>15.78</b>	<b>1.36</b>	<b>77.22</b>	<b>82.75</b>	<b>5.53</b>	<b>2.39</b>
				136.2	138.2	2	1.18	136.2	138.2	2	1.18