

## ASX RELEASE

16 September 2010

ASX CODE: MZM

ISSUED SHARES: 42.33M

52 WEEK HIGH: \$0.40

52 WEEK LOW: \$0.14

### CONTACT:

JUSTIN BROWN

Managing Director

+61 438 745 675

### BOARD:

Denis O'Meara: Chairman

Justin Brown: MD

John Ribbons: Non-Exec

### KEY PROJECTS:

PEAK HILL (85-100%)

Gold

DURACK (earning 85%)

Gold, Copper

BUTCHERBIRD (100%)

Manganese, Copper

MT PADBURY (100% of gold)

Gold, Manganese, Iron

### KEY SHARE POSITIONS:

AUVEX RESOURCES LTD

7,500,000 FPO Shares

BUXTON RESOURCES LTD

3,010,000 FPO Shares

## MONTEZUMA MINING COMPANY LTD

PO Box 910 West Perth WA 6872

31 Ventnor Ave, West Perth WA 6005

Telephone +61 8 9315 1400

Facsimile +61 8 9486 7093

info@montezumamining.com.au

www.montezumamining.com.au

ABN 46 119 711 929

## MAIDEN DRILLING PROGRAMME CONFIRMS HIGH GRADE COPPER AT BUTCHERBIRD

- Results include:
  - 10BBC01: **4m @ 6.97% Cu**, 566ppm Co
  - 10BBC05: 4m @ 1.52% Cu, 140ppm Co
- The copper mineralisation has a strong associated cobalt, lead and zinc mineralised halo.
- System appears to be a shear hosted polymetallic deposit with significant potential requiring follow up work.
- Airborne EM programme currently being planned over several manganese targets will also test this feature.

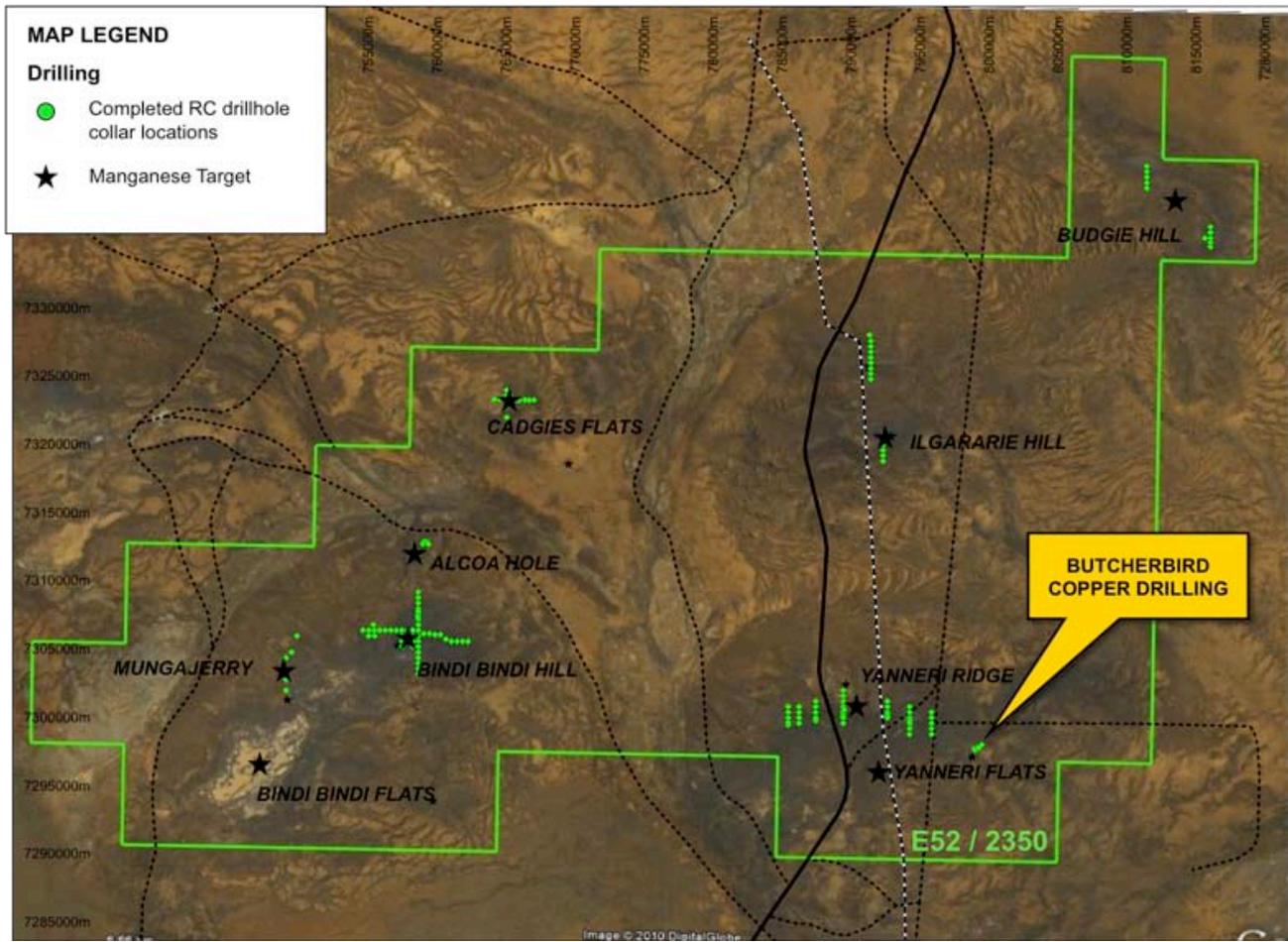
The Company is pleased to advise that the maiden drilling programme at the historic Butcherbird copper mine has returned encouraging high grade copper results from the oxide zone beneath the small scale shafts.

The drilling programme comprised a total of five RC holes for 470m, targeting sulphide mineralisation beneath the surface oxide expression, however an intrusive dolerite may have truncated the mineralisation at this location so no true primary sulphide material was intersected.

The tenor and polymetallic nature of the results however suggest that the shear hosted mineralisation represents a target with significant potential, further supported by an approximately 4km long interpreted host structure defined in the regional aeromagnetic data.



Figure 1: RC Drilling chips for 10BBC01 showing strong copper oxide mineralisation 16-20m downhole.



The success of this first drilling programme has enhanced the prospectivity of the target and follow up work is currently being planned, including an airborne EM survey to attempt to define a sulphide body beneath the surficial oxide expression.

The tenor of the copper values and leaching properties suggested by the behaviour in the laboratory indicates the potential for a heap leach operation should sufficient tonnages of oxide material be defined by follow up drilling. The primary target however remains the sulphide mineralisation at depth which will be the focus of the geophysical work and deeper drilling in the next programme.

The Butcherbird manganese and copper project comprises one granted exploration lease straddling the Great North Highway approximately 120km south of Newman. Earlier reconnaissance surface sampling highlighted extensive surface manganese enrichment associated with supergene weathering processes as well as the copper mineralisation at the Butcherbird copper mine. First pass drilling at a number of targets prospective for copper and manganese has been completed since the tenement was granted earlier this year.

The results to date confirm the Butcherbird Project as a high priority project for the Company with good potential to yield commercial discoveries and significant work is ongoing to further advance this potential.

Hole_ID	From	To	Cu %	Au ppm	Ag ppm	As ppm	Co ppm	Fe %	Ni ppm	Pb ppm	Zn ppm	Cd ppm	Sb ppm	Bi ppm
10BBC05	19	20	0.11	0.005	1	38	475	1.98	143	50	40	0.1	28	1
	20	21	0.04	0.005	0.5	55	30	2.26	23	54	23	0.1	38	2
	21	22	0.05	0.005	1	61	30	1.9	35	275	26	0.1	178	3
	22	23	0.34	0.01	2	65	125	2.39	116	535	47	0.2	425	5
	23	24	1.69	0.01	2	25	128	0.79	154	449	36	0.2	449	11
	24	25	1.36	0.005	2	51	152	1.74	185	447	101	0.2	289	10
	25	26	0.45	0.005	1	42	16	1.03	34	256	101	0.1	115	1
	26	27	0.79	0.005	5	72	22	7.85	50	779	320	0.3	156	11
	27	28	0.14	0.005	2	47	203	3.39	149	1490	850	0.5	57	2
	28	29	0.04	0.005	2	38	49	2.56	121	1540	730	0.3	29	1
	29	30	0.06	0.01	41	25	43	7.05	136	1940	1075	0.5	7	1
	30	31	0.02	0.005	3	26	35	4.5	127	1775	805	8.5	4	0.5
	31	32	0.01	0.005	3	20	35	7.75	119	601	1175	8.7	2	0.5
10BBC06	51	52	0.34	0.01	10	70	67	7.15	93	316	141	0.3	35	2
	52	53	0.08	0.03	4	73	50	7.35	120	785	142	0.2	210	6
	53	54	0.45	0.02	62	47	215	8.15	163	996	76	0.8	103	2
10BBC01	15	16	0.46	0.005	2	77	228	7.87	221	293	80	0.2	185	3
	16	17	9.69	0.005	1	24	483	1.86	216	51	58	0.3	75	14
	17	18	10.79	0.005	2	24	620	1.36	358	36	54	0.2	83	8
	18	19	4.35	0.005	1	40	785	3.43	274	159	58	0.3	117	7
	19	20	3.06	0.005	1	23	375	1.34	165	64	66	0.2	61	6
	20	21	0.22	0.01	1	31	531	3.22	175	392	150	0.2	20	1
	21	22	0.10	0.005	1	21	269	1.29	96	264	91	0.3	6	1
	22	23	0.11	0.005	2	27	508	1.92	200	603	252	0.2	8	1
10BBC03	20	21	0.15	0.005	1	52	43	7.25	64	143	56	0.3	75	8
10BBC02	52	53	0.43	0.005	10	61	117	7.31	71	878	250	0.6	132	5
	53	54	0.15	0.005	2	31	13	0.96	25	399	60	0.2	34	1

**Table 1:** Significant assays from recent drilling at the Butcherbird copper mine. Intervals with copper grades in excess of 0.1% are shown. All samples are 1m metre intervals assayed by Aqua Regia digest with AAS finish. These results have also been confirmed by mixed acid digest analysis.

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## **More Information**

**Justin Brown**

Managing Director

Phone: +61 (8) 6315 1400

Mobile: 0438 745 675

The Information in this report that relates to exploration results is based on information compiled by Justin Brown, who is a member of the Australian Institute of Mining & Metallurgy. Mr Brown is a geologist and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Justin Brown consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.