# PRESS RELEASE 11 JANUARY 2013

# CENTRAL MURCHISON GOLD PROJECT DEFINITIVE FEASIBILITY STUDY SUPPORTS A LONG LIFE PROFITABLE GOLD OPERATION

Metals X Limited (Metals X) is pleased to advise that it's wholly owned subsidiary Westgold Resources Pty Ltd (Westgold) has completed its Definitive Feasibility Study (DFS) on its Central Murchison Gold Project (CMGP), which concludes that a long-life gold project can be established, with key highlights including:

- An estimated pre-tax NPV<sub>8</sub> of A\$141.9M.
  - Average Life of Mine cash operating costs of A\$979 per ounce.
- Life of Mine Revenue of A\$1.76 billion and EBITDA of A\$692M.
- A pre-production Capital Cost estimate (including process plant, contingency & EPCM) of A\$117.1M.
  - Probable Mining Reserves of 1.17M ounces (15.46 Mt @ 2.36 g/t Au) allowing for an initial 11 year mine life.
- A Total Mineral Resource estimate of 4.95M ounces [61.2 Mt @ 2.52 g/t Au].
  - A combination of ore sources including stockpiles, lower-grade open pits and higher-grade sustainable underground mines with a 3 year ramp-up to steady state production.
  - Significant scope for Ore Reserve increases from resource to reserve conversions of deeper resources in the underground mines (over time), the consideration to extraction of historic mine remnants (particularly Great Fingall) and evaluation of open pit and underground mining opportunities at Cuddingwarra which are yet to be considered.
- Simple low risk CIL (carbon in leach) processing plant of 1.5 Mtpa capacity
   designed and costed by expert consultants, GR Engineering Services.

Environmental approvals are well advanced.

Metals X has existing cash and working capital reserves of A\$84M which provides a strong financial platform to move forward.

Debt financing discussions are well advanced with indicative term sheets from international banks currently under consideration.



Metals X Limited is a diversified group exploring and developing metals and minerals in Australia. It is Australia's largest tin producer and holds a pipeline of assets from exploration to production, including two gold development projects and the world-class Wingellina Nickel Project.

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Metals X's Executive Director & CEO, Mr Peter Cook said:

"We are pleased with the results of this study. It provides a strong base option to commercialise the project and one that is very achievable both financially and technically for the Company.

"The Murchison region is alive again with at least six companies electing to 'go it alone' with the development or restart of gold operations on projects with moderate lives and in most cases relatively high costs. Metals X intends to study the benefits of consolidation of ore processing and development assets in this region before embarking on a decision to commit to its own stand-alone processing facility. We believe the CMGP stands out against most of these projects in terms of the overall mineral resource size and average grade. The heart of the CMGP project is higher-grade proved underground mines which when established provide for a more sustainable production."

"Whatever we decide, the new Gold Division of Metals X is determined to become a gold producer and build a substantial gold division to compliment the strong cash flow from our Renison Tin Operations."

### **ENQUIRIES**

Peter Cook

Executive Director & CEO

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## **CMGP FEASIBILITY OVERVIEW**

Metals X (ASX: MLX) is pleased to announce that its wholly owned subsidiary, Westgold has completed its Definitive Feasibility Study (DFS) on its 100% owned gold project.

The CMGP is centrally located in the Murchison gold province, approximately 600 km northeast of Perth. The Murchison Province is the current focus of significant gold development activity in Western Australia. Several projects within a 100 km radius of the CMGP are currently in construction, commissioning and production. The CMGP is one of the Company's two development ready gold projects in Australia. The other being its exciting and high-grade Rover 1 Copper-Gold project at Tennant Creek in the Northern Territory.

The CMGP has an enviable pedigree within the region having produced 5.5 Moz of the historic production from the region and hosting two of only four plus million ounce historic mines. The three key gold mining centres of the CMGP are Big Bell, Cuddingwarra and Day Dawn, south of Cue. (Figure 1).

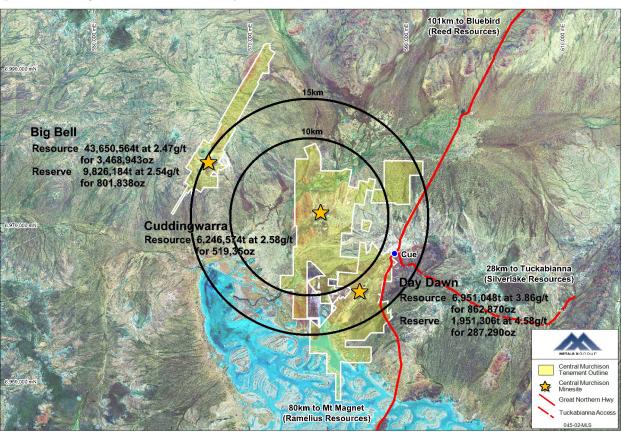


Figure 1: Central Murchison Gold Project

The DFS proposes to initially reprocess the Big Bell tailings and open pit material while developing the Big Bell underground and Great Fingall/Golden Crown underground operations, with an initial mine life of 11 years contemplated by the study.

The DFS also proposes to construct a new 1.5 Mtpa carbon in leach (CIL) processing plant on the site of the old Big Bell plant and will also utilise some existing remaining infrastructure (borefields, air-strip, tailings dams and road networks). The original Big Bell plant was a 3.2 Mtpa CIL plant which was decommissioned and moved in 2003 when the gold price was approximately A\$500 per ounce.

The key outcome of the DFS is that a long-life and profitable gold operation can be established.

Highlights of the DFS are summarised in Table 1 below:

### TABLE 1. CENTRAL MURCHISON GOLD PROJECT: DFS OUTCOMES

Mineral Resource & Ore Reserve Estimates —Summary			
Measured Resources	0.129 Mt	1.61 g/t Au	7,000 oz
Indicated Resources	40.65 Mt	2.53 g/t Au	3,303,000 oz
Inferred Resources	20.42 Mt	2.50 g/t Au	1,640,000 oz
Total Mineral Resource	61.2 Mt	2.52 g/t Au	4,949,000 oz
Histor One December (Drobable)	4F 4C W4	2 20 ~/4 4	1 174 000
Initial Ore Reserves (Probable)	15.46 Mt	2.36 g/t Au	1,174,000 oz

Production Summary (LOM)	
Initial Project Life	11 years
Average Open Pit strip ratio	12:1
Open Pit Ore mined & processed	2.7 Mt
Stockpiles & Tailings processed	3.7 Mt
Underground Ore mined & processed	9.0 Mt
Average Annual Processing Rate	1.5 Mt
Average Gold recovery	89%
Average Annual Gold production (inc. ramp up)	95,000 oz

		0	
Total Mineral Resource	61.2 Mt	2.52 g/t Au	4,949,0
Initial Ore Reserves (Probable)	15.46 Mt	2.36 g/t Au	1,174,00
Production Summary (LOM)			
initial Project Life			11 վ
Average Open Pit strip ratio			
Open Pit Ore mined & processed			2
Stockpiles & Tailings processed			3
Underground Ore mined & processed			9
Average Annual Processing Rate			1
Average Gold recovery			
Average Annual Gold production (inc. ramp up)			95,00
Capital Plant & Equipment (LOM)			
Mining pre-production costs			
Processing plant & borefields (including EPCM & Contingency)			
Tailings storage dam (5 stages over life of mine)			
Accommodation village			
Mining Infrastructure (over life of mine)			
Mobile fleet			
Administration Facilities			
<del>}</del>		I	1
Total			

Pre-production C	apital Cost	117.1
Pre-production C	apitai cust	111.1

Life of Mine Operating Costs (LOM)	A\$/tonne
Average Open Pit Mining Cost	44
Average Underground Mining Cost	64
Average Processing Cost	22
Average General and Administration Cost	6
Average onsite operating costs	66

LOM Cash Cost per ounce	A\$979/oz
LUM CASH COST per ounce	A D / C A
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Pre Tax NPV <sub>(8)</sub>	\$141.9M
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Assumptions	Year O	Year 1	Year 2	Year 3	Year 4	Year 5	Long Term
US Gold Price (US\$/oz)	1750	1700	1600	1500	1450	1450	1400
Exchange Rate (A\$:US\$)	1.00	0.95	0.90	0.88	0.85	0.85	0.85
Australian Gold Price (A\$/oz)	1750	1789	1778	1714	1706	1706	1647

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OP Mine design and Ore Reserves Westgold Hydrology Rockwater
Hydrology Rockwater
Process Design GRES
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Metallurgical testwork GRES / SGS Analabs
Plant and infrastructure GRES
Environment Outback Ecology

### STEPS TO DEVELOPMENT

Permitting for the CMGP is well advanced, with mining leases, clearing permits and water licenses in place with all other environmental and statutory approvals in their final stages. Planning for a number of pre-development activities has commenced including; dewatering, establishment of initial open pit operations and further drilling to continue resource conversion on high grade targets.

The DFS study presents as a sound base case for a stand-alone project development with more than 10 years of initial mine life.

It is expected that development of the CMGP could be funded by a combination of debt and equity. Metals X currently has available cash and liquid assets of \$84M. Remaining capital requirements are expected to be debt funded and discussions with international banks are advanced with indicative term sheets provided and credit approval processes currently underway.

The Company continues to consider a range of options for the development of the Murchison assets with the region at an exciting stage of development. There are four plants scheduled to be operating by the first quarter of 2013 in the Murchison, with another two scheduled later in the year. Currently at least two of these are not operating at full capacity or efficiency and have potential to accommodate additional feedstock located within a 100 km radius of the CMGP assets. Metals X intends to assess the logic, synergy and benefits of consolidation within the region before embarking on any new plant development decision.

### TECHNICAL ASPECTS OF THE CMGP

The current total mineral resource inventory for the site stands at 61.2 Mt @ 2.52 g/t for 4.95 Moz of Gold. On the basis of work documented in this study, an Initial Ore Reserve of 15.46 Mt @ 2.36 g/t containing 1,174,000 oz of gold is estimated for the CMGP. Refer to ASX announcement of 19th December 2012 for detail on the Mineral Resource and Ore Reserve estimates.

### CMGP REGIONAL GEOLOGY

The CMGP is located in the Archaean Murchison Province, a granite-greenstone terrane in the northwest of the Yilgarn Craton. The three goldfields of Big Bell, Cuddingwarra and Day Dawn are made up of greenstone belts trending north-northeast are separated by granite-gneiss domes, with smaller granite plutons also present within or on the margins of the belts. The greenstone belts comprise tholeiitic and high-Mg basalts, komatiites and other ultramafic volcanics, mafic and ultramafic intrusives (dolerites, gabbros, dunites), felsic and intermediate volcanics and meta-sediments including banded iron formations.

### **OPEN PIT MINING**

The proposed CMGP open pit program consists of conventional open pit methods, conventional mining equipment with selective grade control methods. The progressive extraction plan considers the Big Bell South, Shocker-1600 and Fender pits in the Big Bell project area, and the Yellow Taxi, South Fingall and Great Fingall pits in the Day Dawn area. Whittle Four-X optimisation software was used for the pit optimisation work. The pit optimisation work excluded inferred resources and all scheduling and productivity estimates were based on final and geotechnically cognisant mine designs.

Numerous additional ore sources in the Cuddingwarra area were not included in the study as resource evaluation processes were incomplete at the time.

### UNDERGROUND MINING

For the planned underground operations at Big Bell and Great Fingall/Golden Crown independent expert consultants, Mining Plus were retained to conduct the detailed mine design, equipment and infrastructure requirements, mine scheduling and calculate mining reserves. Geotechnical considerations were reviewed and modelled by specialist geotechnical consultants Beck Engineering and Mike Turner and Associates. Costs have been derived from experienced mining contractor pricing specific to the CMGP scope and schedules.

### **GREAT FINGALL/GOLDEN CROWN**

Both Golden Crown and Great Fingall ore bodies are moderately dipping quartz veins with ore widths for Golden Crown of approximately 3m true width and 4.5m true width for Great Fingall.

The production sequence will be top-down to allow for early ore production. Rib pillars and crown pillars will be left for all stopes in order to avoid the need for backfill to all stope voids.

The planned mine for the Great Fingall and Golden Crown veins has an initial mine life of 6.5 years and can sustain a steady state production rate of 200,000 - 250,000 tpa. Although substantial remnants exist at Great Fingall in the upper levels, these are not currently incorporated in the DFS. Further, both ore systems have resulted in substantial underground mines with the ore systems open down plunge and highly likely to be extended with progressive deeper drilling.

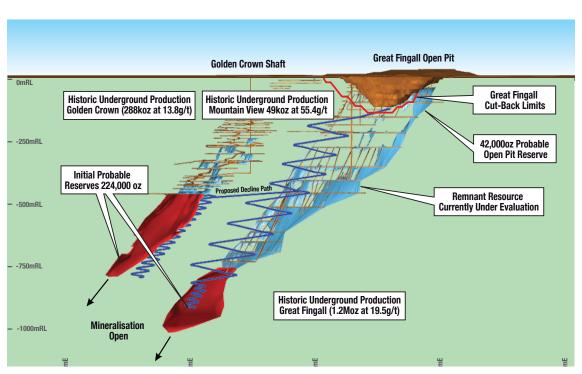


Figure 4: Great Fingall/Golden Crown Development Plan

### **BIG BELL**

The Big Bell orebody is a 75 degree dipping tabular mineralised shear zone which extends for over 700m of strike and has an average width of 15m.

Between 1995 and prior to closure in 2003 due to the low prevailing gold price, the Big Bell ore system was mined by sublevel caving methods to approximately 630 metres below surface The production estimate for this period was 11.5 Mt at an average grade of 3.15 g/t Au containing 1.164 M ounces of gold.

The DFS considered a number of potential mining methods, however the historically adopted sub level open stoping was selected on the basis that it provided a manageable higher level of productivity without the impacts of ground stress that hindered the previous operation when it attempted to overproduce (at rates in excess of 2 Mtpa) from the mine. The current mine design for Big Bell will employ twin declines that access the northern and southern extents of the orebody and retreat from the centre to their respective accesses (Figure 5).

Dewatering of the existing mine workings is planned in two stages and is expected to take 18 months to complete.

The Big Bell mine can sustain 1.0 Mtpa production for approximately seven years, prior to a one year ramp down to mine closure. It is estimated that it will take approximately two years for pre-production activities to be completed prior to reaching 1.0 Mtpa.

Annualised production from the mine when at steady state typically varies between 80,000 to 100,000 oz per annum, with the latter occurring in the earlier years of the mine life. From the approximate mid-point of the LOM, head grade decreases marginally which results in these years producing in the vicinity of 80,000 oz per annum. Of significance, the current DFS plan only considers mining to 810m below surface and some 14.4 Mt at 2.78 g/t containing 1.29 Moz ounces of gold exists in the mineral resource below this depth.

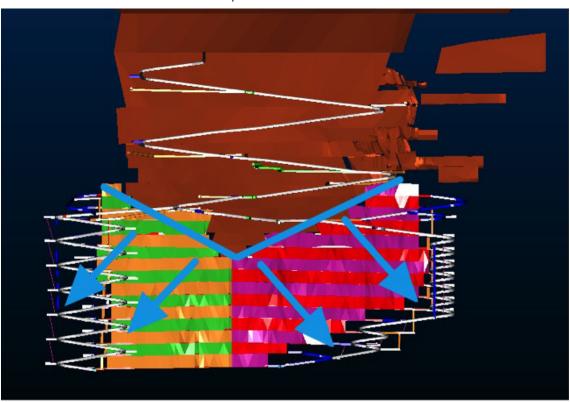


Figure 5: Big Bell long section showing twin decline and dual mining front sequence design

### METALLURGICAL TESTWORK AND PROCESS DESIGN

Extensive historical operating data was available for review to ascertain expected operating parameters and performance of ore sources. The design process assessed and confirmed the cost and benefits of establishing a flowsheet that achieved a finer grind of 80p 75 microns. Representative samples of the ore types were assessed for metallurgical properties including recoveries and communition on an individual and blended basis for the purposes of ore characterisation. Tailings samples were assessed for characterisation including rheology. All testwork was conducted utilising a process water sample sourced from site. The testwork program for the DFS was undertaken at SGS Analabs in Perth and was supervised by GRES.

The plant design will have a nominal plant throughput capacity of 1.5 Mtpa when treating a combination of primary ore (up to 1.2 Mtpa) and tailings, with the latter utilising a scrubbing circuit prior to gold extraction and recovery. Tailings will be discharged sub-aerially to the existing tails dams on site and process water will be sourced initially from the dewatering activities from the Big Bell underground and subsequently the existing borefields.



Figure 6: Plan of the CMGP mine site showing the processing plant and associated infrastructure

The processing circuit is a simple CIL scenario and consists of:

- Delivery of ore to a Run-of-Mine (ROM) pad for direct tip to a primary crusher;
- Single stage jaw crushing of ROM ore;
- Two stage grinding via a primary SAG (semi-autogenous grinding) mill and ball mill to P80 75 μm;
- Scrubbing and pre-leach thickening of historic tails;
- Carbon in Leach and Adsorption;
- Elution of Gold;
- Production of Gold Dore.

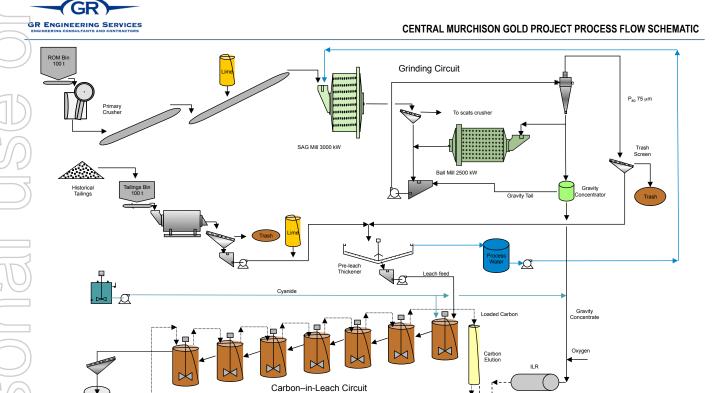


Figure 7: Process Flowsheet for the CMGP

### **INFRASTRUCTURE AND LOGISTICS**

Westgold Resources Limited Central Murchison Gold Projec

Power for the Big Bell site will be provided through a 8 MW diesel power station, under a build own operate (B00) contract. Power to the underground operations at Great Fingall will be via a 2 MW station also under a B00 scenario.

Messing and accommodation facilities cater for a peak of 330 FIFO personnel within 230 rooms, additionally the upgrading and permitting of the existing Big Bell air strip has been allowed for in the DFS capital cost estimates.

The site is already accessed by 14km of sealed road via the Great Northern Highway at Cue with the DFS including the upgrade to all weather access for the last 20km to site.

Communications to Perth will be supplied by microwave link and radio links will connect the various CMGP satellite operations.

### **LICENSING & PERMITTING**

The CMGP is located on granted mining titles. Groundwater abstraction licenses and clearing permits have been granted. All baseline studies required to fully permit the project are complete. All remaining approvals relating to dewatering are expected to be granted February 2013. All other requirements for regulatory and statutory approvals are well advanced.

### **TAXATION AND ROYALTIES**

As a group, the combined Metals X (and Westgold) has estimated carried forward tax losses as at 31 December, 2012 of approximately A\$140M (unaudited). No consideration for the use of these has been made in the DFS. As such a pre-tax NPV estimate is made.

Royalties of approximately A\$44.6M are payable over the life of the mine, predominantly to the West Australian government.

### COMPETENT PERSONS STATEMENT

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Mr Jake Russell B.Sc. (Hons), who is a Member of the Australian Institute of Geoscientists. Mr Russell is a full-time employee of the company. Mr Russell has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activities 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". Mr Russell consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Ore Reserves is based on information compiled under the direction of Mr. Paul Hucker B. Eng (Hons), who is a Member of the AusIMM. Mr Hucker is a full-time employee of the company. Mr Hucker has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activities 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". Mr Hucker consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

# CENTRAL MURCHISON GOLD PROJECT ORE RESERVES ESTIMATE – DECEMBER 2012

		Proven				Probable		Total			
	Ore Body	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	
	Big Bell										
	1600N / Shocker	-	-	-	710,000	2.09	48,000	710,000	2.09	48,000	
	Big Bell	-	-	-	8,010,000	2.65	682,000	8,010,000	2.65	682,000	
	Big Bell South	-	-	-	982,000	1.97	62,000	982,000	1.97	62,000	
	Fender	-	-	-	124,000	2.36	9,000	124,000	2.36	9,000	
	Day Dawn										
	Golden Crown	-	-	-	557,000	6.73	120,000	557,000	6.73	120,000	
	Great Fingall Open Pit	-	-	-	750,000	1.74	42,000	750,000	1.74	42,000	
	Great Fingall Deeps	-	-	-	435,000	7.77	109,000	435,000	7.77	109,000	
9	South Fingall	-	-	-	60,000	1.70	3,000	60,000	1.70	3,000	
	Yellow Taxi Group	-	-	-	151,000	2.69	13,000	151,000	2.69	13,000	
	Stockpiles										
	Big Bell Stockpiles	-	-	-	116,000.00	0.83	3,000	116,000	0.83	3,000	
	Big Bell Tails	-	-	-	3,394,000	0.70	76,000	3,394,000	0.70	76,000	
	Cuddingwarra Stockpiles	-	-	-	51,000	0.75	1,000	51,000	0.75	1,000	
	Day Dawn Stockpiles	-	-	-	119,000	1.00	4,000	119,000	1.00	4,000	
	Totals	-	-	-	15,458,000	2.36	1,174,000	15,458,000	2.36	1,174,000	

# CENTRAL MURCHISON GOLD PROJECT MINERAL RESOURCE ESTIMATE – DECEMBER 2012

			Measured			Indicated			Inferred		Total Resource			
Mining Centre	/Deposit	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	
Big Be	II													
1600N/Sh	ocker	-		-	3,441,000	1.67	185,000	1,237,000	1.61	64,000	4,678,000	1.65	249,000	
1600N / Shocker U	Inderground	-		-	64,000	1.71	4,000	1,189,000	2.79	107,000	1,253,000	2.73	110,000	
700 / 11	00	-		-	780,000	1.49	37,000	419,000	1.17	16,000	1,199,000	1.38	53,000	
Big Bel	I	-		-	20,091,000	2.82	1,820,000	8,637,000	2.69	748,000	28,727,000	2.78	2,568,000	
Big Bell So	outh	-		-	2,824,000	1.62	147,000	1,723,000	1.65	91,000	4,547,000	1.63	239,000	
Big Bell South Un	derground	-		-	66,000	2.86	6,000	1,453,000	2.37	111,000	1,519,000	2.39	117,000	
Fende	r	-		-	1,006,000	2.42	78,000	25,000	2.01	2,000	1,031,000	2.41	80,000	
Fender Under	ground	-	-	-	271,000	2.82	25,000	178,000	2.92	17,000	450,000	2.86	41,000	
Indicate	or	-		-	202,000	1.69	11,000	44,000	0.84	1,000	246,000	1.54	12,000	
Cuddingw	arra													
Black Sw	an	-		-	260,000	2.31	19,000	5,000	1.65		265,000	2.30	20,000	
Black Swan	South	-		-	315,000	3.77	38,000	1,857,000	3.82	228,000	2,172,000	3.77	266,000	
Chieftai	in	-		-	50,000	3.10	5,000	75,000	3.40	8,000	125,000	3.28	13,000	
City of Che	ester	-		-	416,000	1.98	26,000	81,000	1.76	5,000	497,000	1.94	31,000	
City of Chester N	Northwest	-		-	197,000	1.65	10,000	13,000	1.18	1,000	210,000	1.62	11,000	
Coventry N	lorth	-		-	-	-	-	204,000	1.34	9,000	204,000	1.34	9,000	
Golden Gate	Group	-		-	713,000	1.51	35,000	31,000	1.14	1,000	744,000	1.49	36,000	
Jim's Fi	nd	-		-	263,000	1.69	14,000	37,000	1.52	2,000	300,000	1.67	16,000	
Lady Ros	sie	-	-	-	268,000	2.10	18,000	15,000	1.13	1,000	283,000	2.05	19,000	
Rheingold (	Group	-	-	-	261,000	3.33	28,000	1,185,000	1.86	71,000	1,446,000	2.13	99,000	

# CENTRAL MURCHISON GOLD PROJECT MINERAL RESOURCE ESTIMATE – DECEMBER 2012 (CONTINUED)

			Measured			Indicated			Inferred			Total Resource		
Mining Centre/Depos	it	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	
Day Dawn														
3210		-	-	-	197,000	1.63	10,000	9,000	2.78	1,000	206,000	1.68	11,000	
Crème d' Or Group		-	-	-	78,000	1.84	5,000	59,000	0.95	2,000	137,000	1.46	6,000	
Golden Crown		-		-	551,000	9.55	169,000	91,000	5.40	16,000	642,000	8.96	185,000	
Great Fingall Open Pi	t	-		-	1,362,000	1.76	77,000	85,000	2.06	6,000	1,446,000	1.78	83,000	
Great Fingall Deeps		-	-	-	570,000	10.13	186,000	218,000	5.46	38,000	788,000	8.84	224,000	
Great Fingall Remnant	ts	-		-	464,000	10.32	154,000	53,000	10.51	18,000	517,000	10.34	172,000	
Kineslla - Kalahari		110,000	1.39	5,000	218,000	1.00	7,000	857,000	1.18	32,000	1,186,000	1.16	44,000	
Mount Fingall		-	-	-	-	-	-	30,000	3.10	3,000	30,000	3.10	3,000	
Rubicon		19,000	2.90	2,000	62,000	2.24	4,000	38,000	1.69	2,000	119,000	2.17	8,000	
South Fingall		-	-	-	222,000	1.84	13,000	114,000	2.17	8,000	335,000	1.95	21,000	
Try Again Group		-	-	-	738,000	2.04	48,000	372,000	2.35	28,000	1,110,000	2.14	77,000	
Yellow Taxi Group		-	-	-	347,000	2.09	23,000	88,000	1.92	5,000	435,000	2.06	29,000	
Stockpiles														
Big Bell Stockpiles		-	-	-	133,000	0.79	3,000	-	-		133,000	0.79	3,000	
Big Bell Tails		-	-	-	3,394,000	0.70	76,000		-		3,394,000	0.70	76,000	
Cuddingwarra Stockpil	es	-	-	-	80,000	0.89	2,000	-	-		80,000	0.89	2,000	
Day Dawn Stockpiles	;	-	-	-	433,000	0.59	8,000	-	-		433,000	0.59	8,000	
Fingall Sands		-	-	-	318,000	0.79	8,000		-	-	318,000	0.79	8,000	
Totals		129,000	1.61	7,000	40,653,000	2.53	3,303,000	20,423,000	2.50	1,640,000	61,206,000	2.52	4,949,000	