

Ozmine 2011

Agenda

- Type of Operation & Processes
- Uniqueness

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Manager, Supply Chain and Site Services



SEPON OPERATIONS - WHERE ARE WE



Located 40 Km
North of Sepon
township in
Savannakhet
Province, Lao
PDR

Sepon Operations



Discovery East Gold pit

Gold Plant

Khanong copper open pit

Copper ROM Pad

Crush and Grind

Leach Area

Oxygen plant

CCD Train

Solvent Extraction

Electro-winning

Copper

Sepon Copper Field attributes

- World class high grade deposit
- Near surface
- Leachable
- Hydro power
- Long life
- Upside



Mining: Open Pit

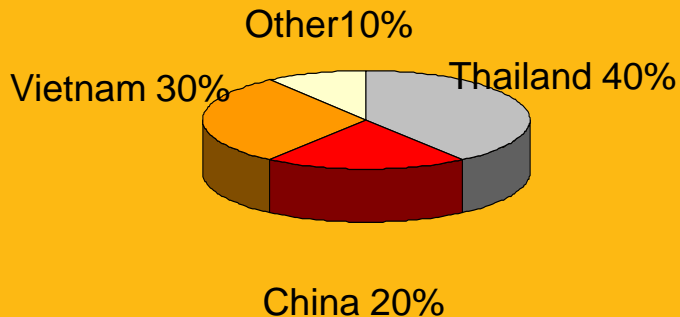
Processing: Whole of ore leach, SXEW

Product: Grade A copper cathodes

LME registration by 2011

Production: 30,000 tonnes 2005
60,000 tonnes 2006
63,000 tonnes 2007
64,000 tonnes 2008
67,500 tonnes 2009
64,200 tonnes 2010
78,000 tonnes 2011

Sepon Copper Markets



Mine Life ~ 10 years hopefully longer

Oxide gold

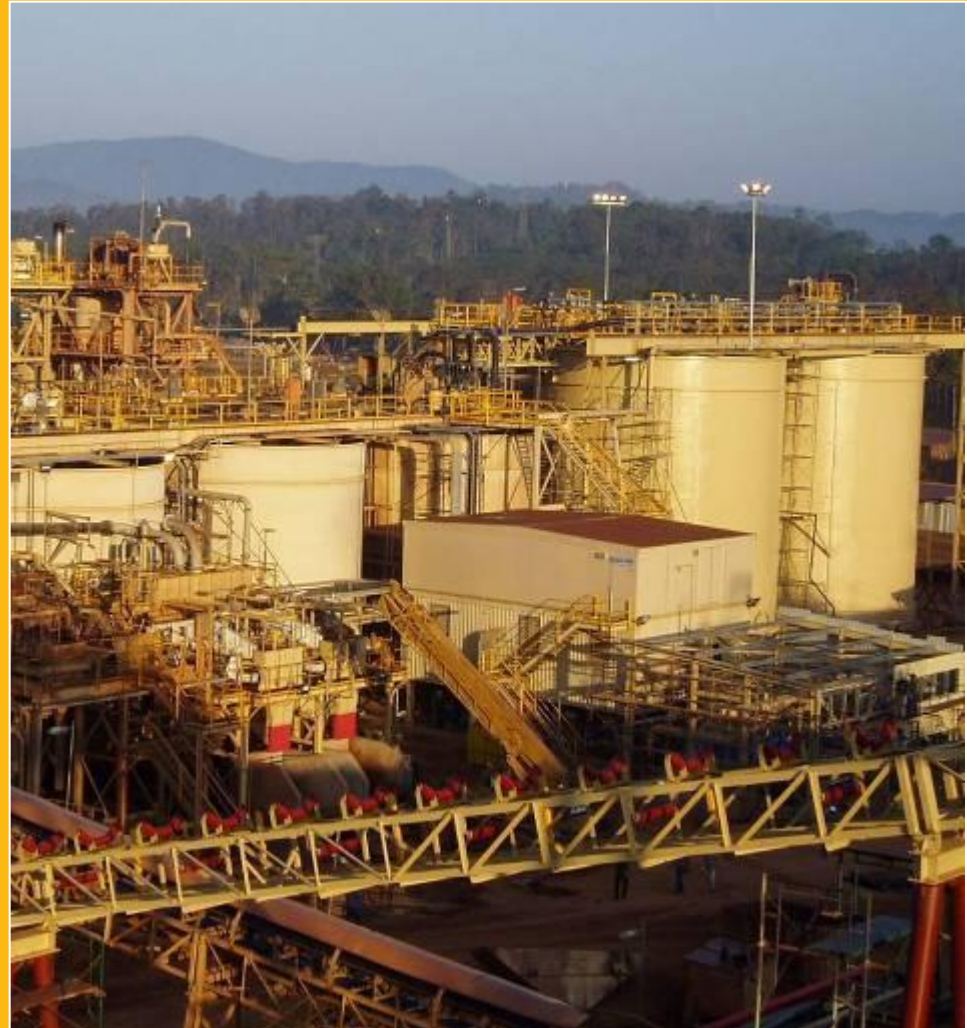
Commissioned 2002

Expanded 2005

2008 production	93,000 oz
2009 production	105,000 oz
2010 production	105,000 oz
2011 Forecast	74,000 oz

Mine Life – less than 2 years but hopefully longer

Primary gold
2 M oz Resource target
Exploration to extend resource
Feasibility work being undertaken



Sepon operations - before



Sepon operations – after \$650M

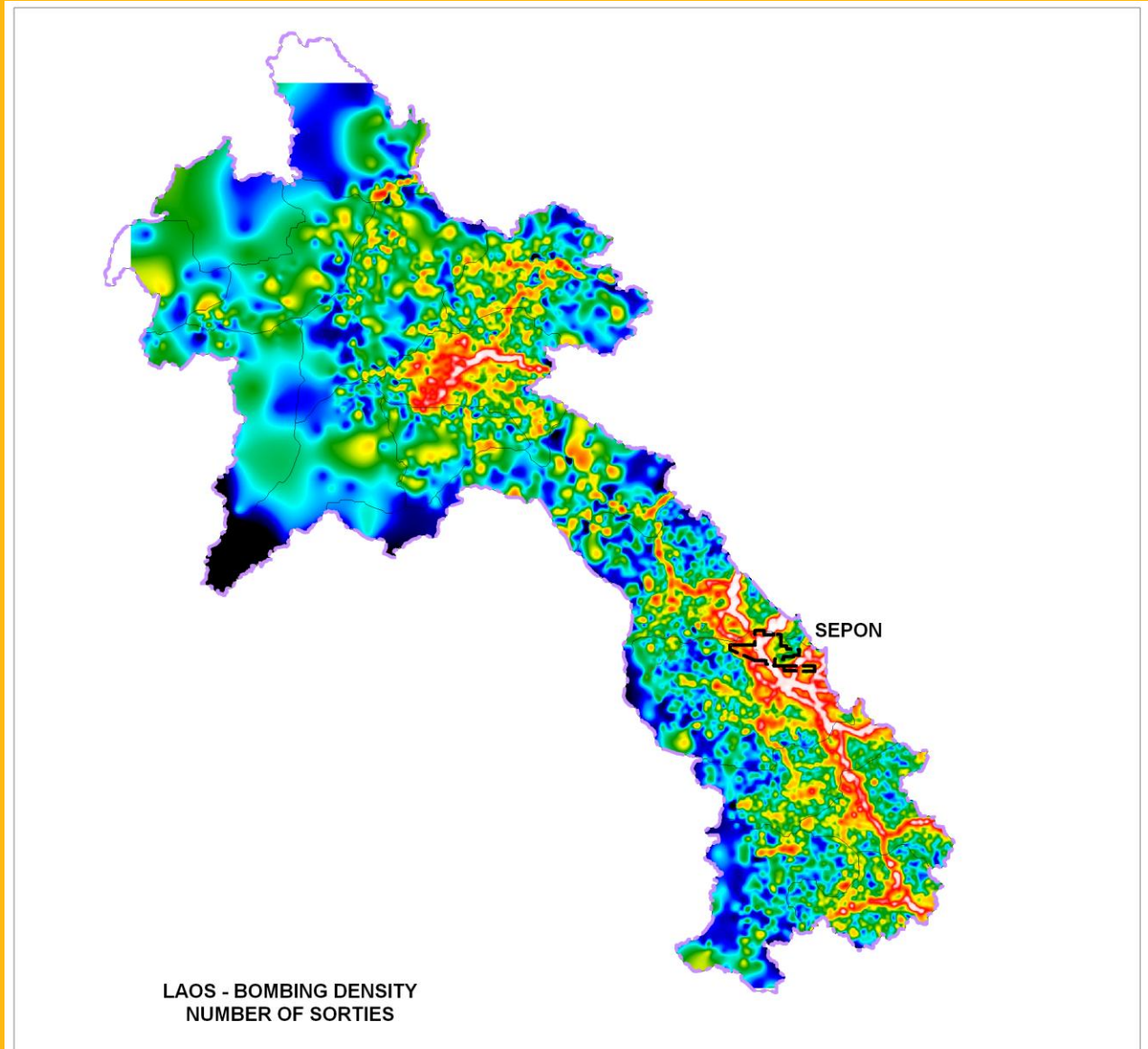


UXO – Unexploded Ordinance Challenges

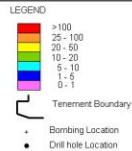
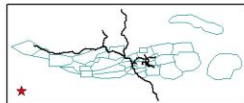
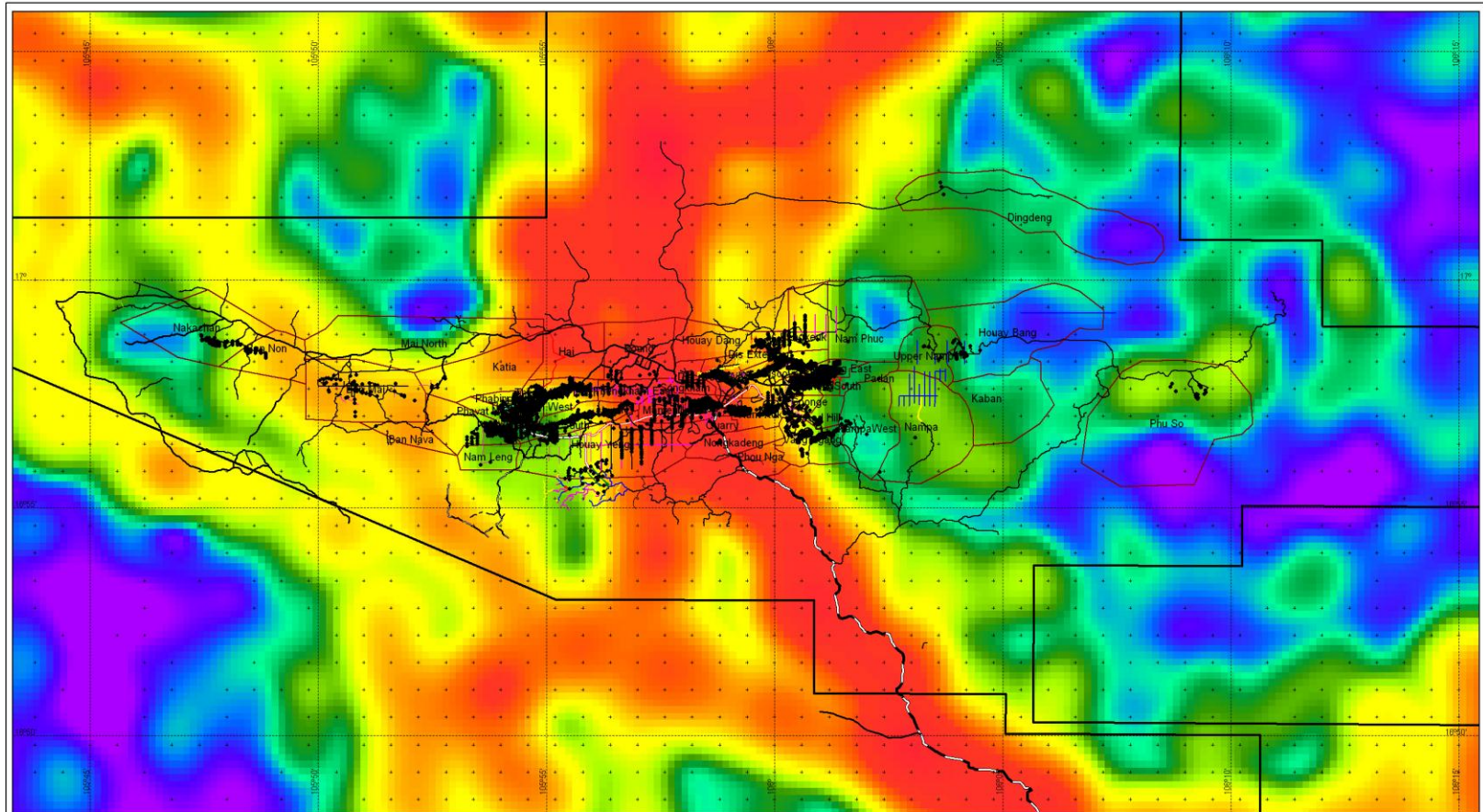
- Where our Operations now are; was blanket bombed
- We employ over 1000 people currently in UXO clearance activities
- Gossan ore requires the use of innovative methods and technologies to detect UXO
- Over 80,000 UXO have been detected and destroyed including 1000lb bombs



Bombing Density – Laos – USAF data



Bombing Density – Sepon District – USAF data



**BOMBING DENSITY
NUMBER OF SORTIES**

Author: DJD	Date: 11 AUG 06
Drawn: AL	Revised:
Draw No.: Lexp06104	Report No.:
Projection: UTM Zone 48N	Scale: 1: 100,000



Mining Challenges

- Many soft areas providing free dig creating blasting challenges
- Region is new to large scale Mining leading to extra challenges in developing Contract Partners especially when it comes to building a safety culture
- Wet conditions – both floods and very slippery ground making large trucks unsuitable
- Skill of personnel



Processing Challenges

- Very high grade but variable ore
 - Tough to balance circuit throughout circuit
 - Massive shifts in input reagents and chemicals eg: cyanide; SMBS and HCl for Gold and Sulphuric Acid for Copper
- Skill of Personnel; Consultants and Suppliers in the Region



Supply Chain Challenges

- Infrastructure limitations – often we have to provide
- Cross border restrictions
- Outgoing freight imbalance – gap of 25,000 tonnes
- Challenges in developing local supplier base from explosives to clothing to food



Exploration Challenges – back to the Future

- Next major project under development at Sepon is Thengkham Mining Area Development
- Good outlook for Primary Gold but we still need more
- Great past record that we believe we can continue

