

Kansanshi Mining Plc



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Kansanshi - 2004



Process
plant

Main Pit



North West Pit



Site overview - 2015



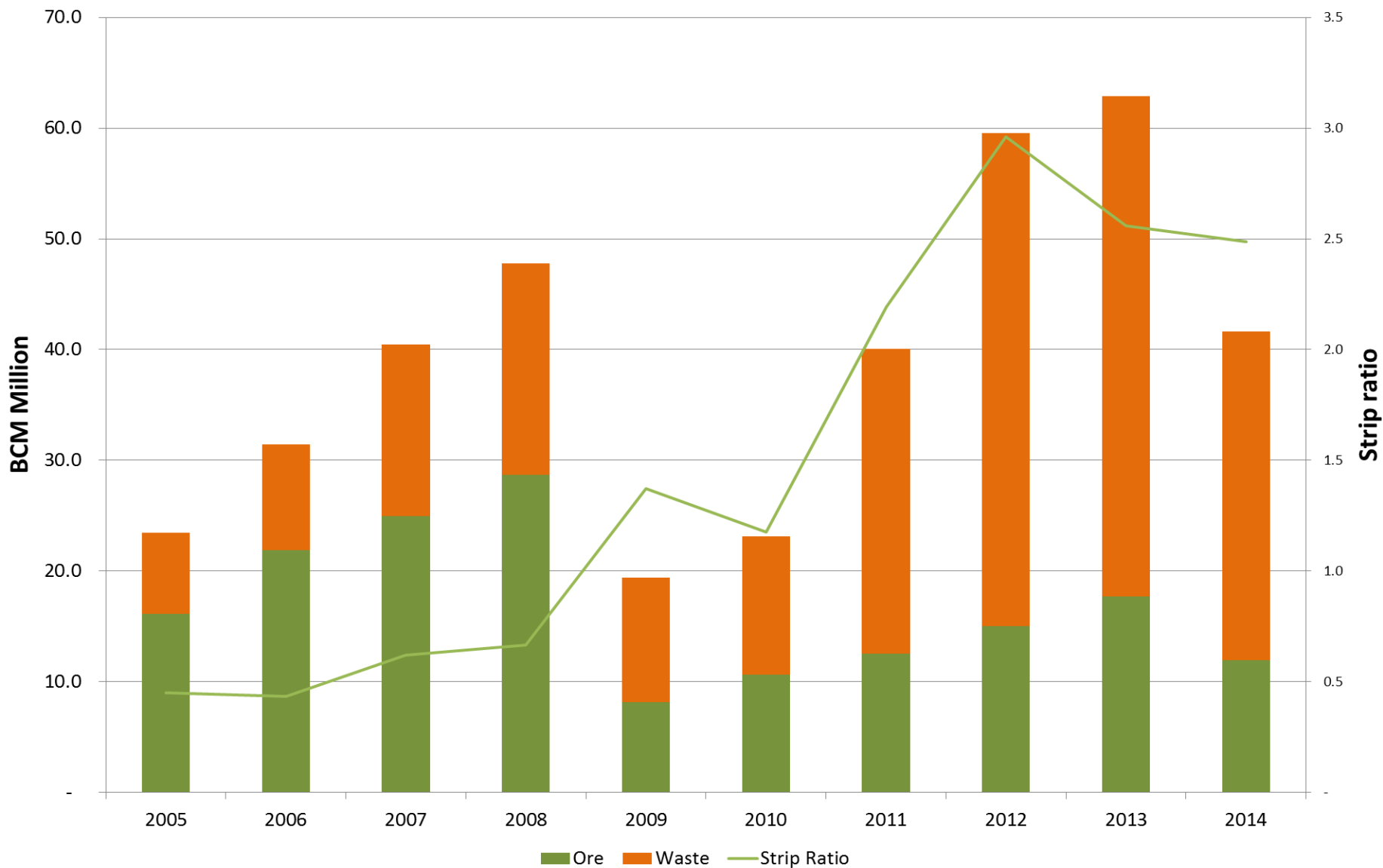
Pit locations



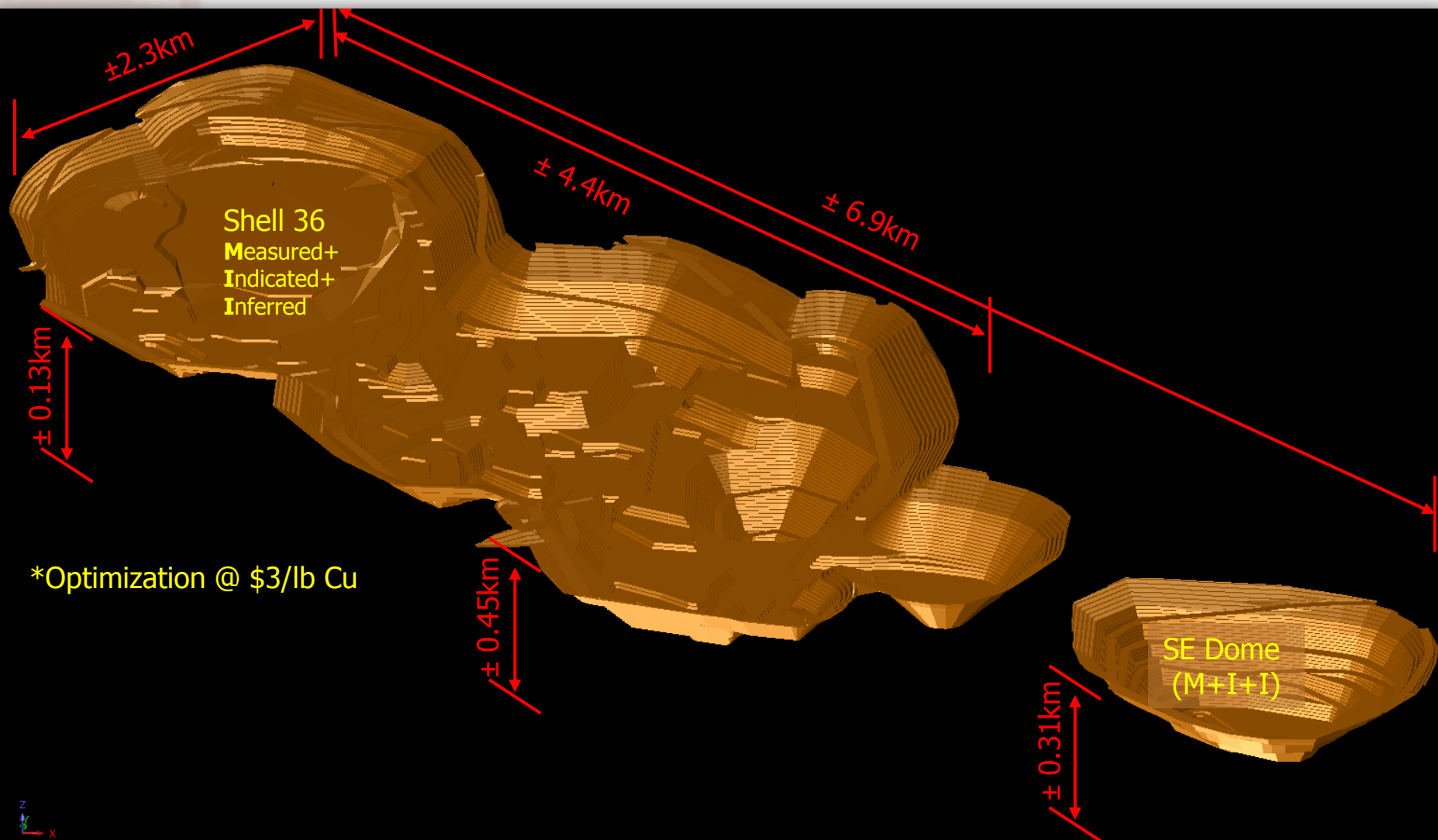
Mining



Mining Volumes – 400 million bcm



Optimised pit shell



Kansanshi Mineral Resource

Mineral Resource Kansanshi

Combined MAIN, NW and SE Dome deposits – as at December 31st, 2014 using a 0.3% Cu cut-off.

Pit areas	Classification	Tonnes (Mt)	Cu (%)	AsCu (%)	Au (g/t)
Main, NW pits & SE Dome	Measured	84.30	0.87	0.27	0.14
Main, NW pits & SE Dome	Indicated	529.80	0.92	0.20	0.15
Main, NW pits & SE Dome	Total Measured and Indicated	614.10	0.91	0.21	0.15
Main, NW pits & SE Dome	Inferred	427.30	0.80	0.06	0.13
Main, NW pits & SE Dome	Total Inferred Resource	427.30	0.80	0.06	0.13



Main production fleet



Trolley Assist



Hitachi 3500

- Electric power.
- 23kph on a 10% slope.



Process plant overview



Process – crushers



Process - mills



Process – Flotation



Process – Electrowinning



Smelter

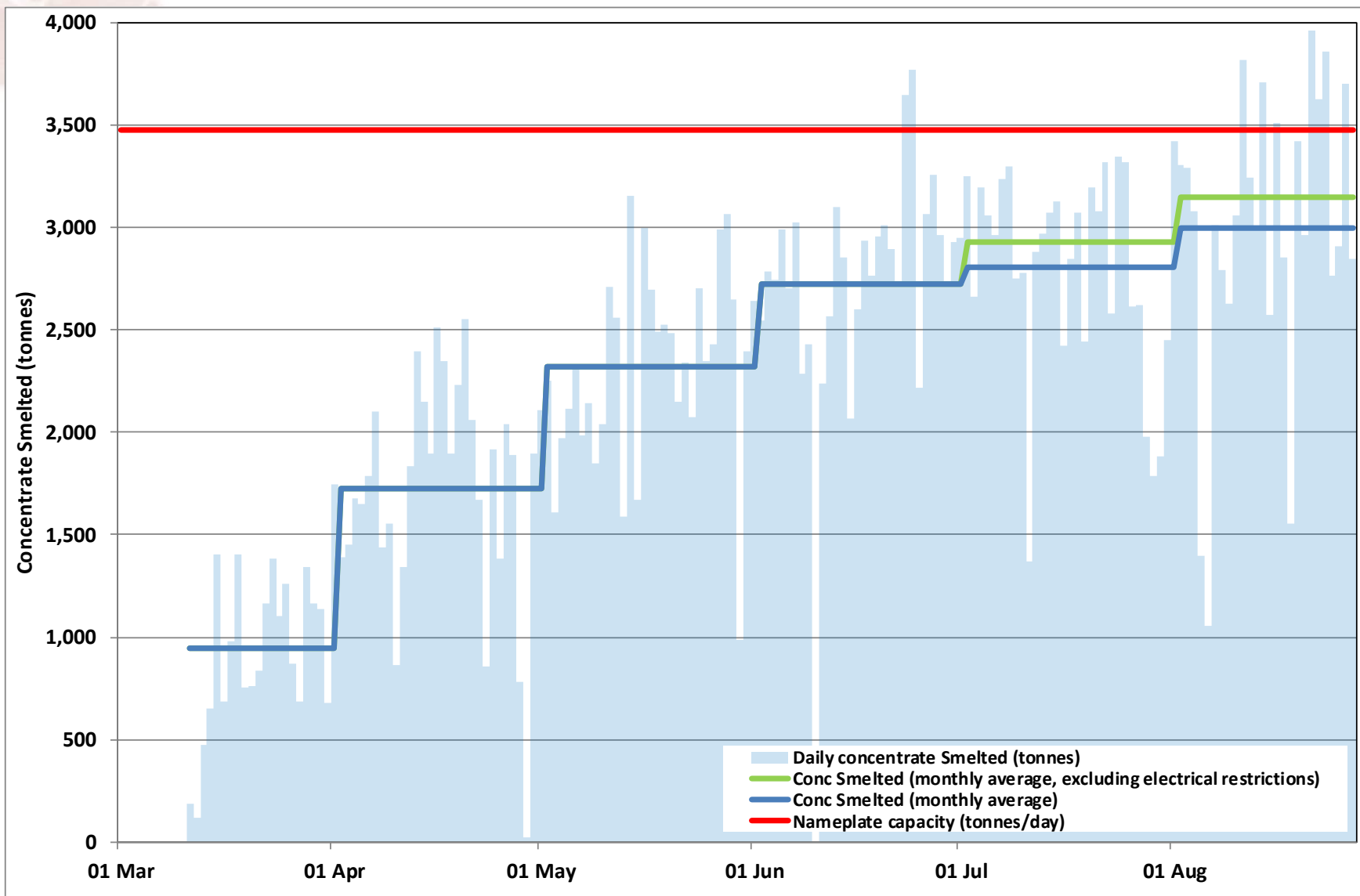


Overview

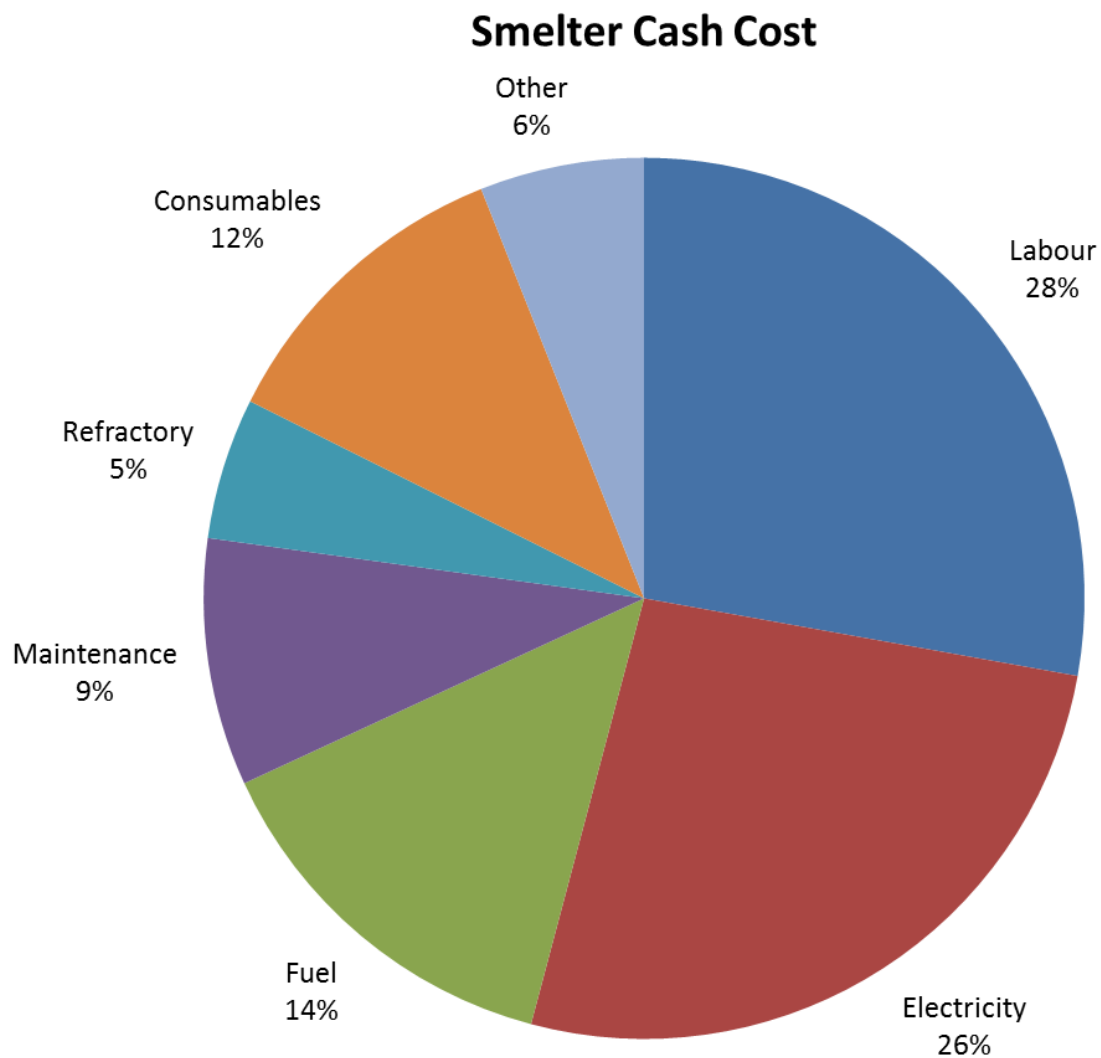
- Capacity:
 - Nominal 1.2 Mtpa concentrate
- Production:
 - Copper 300,000 (net copper)
 - Acid 1.1 (98.5% H₂SO₄)



Smelter Performance

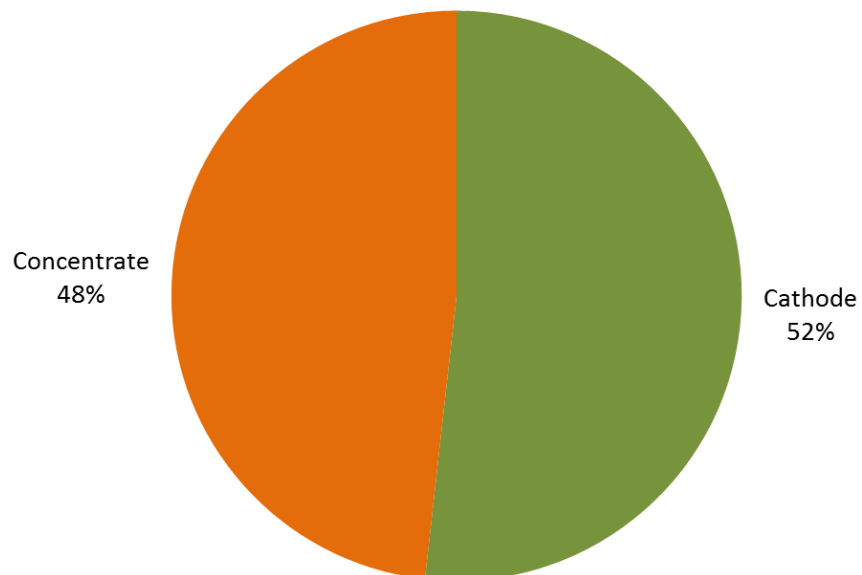


Smelter Cost

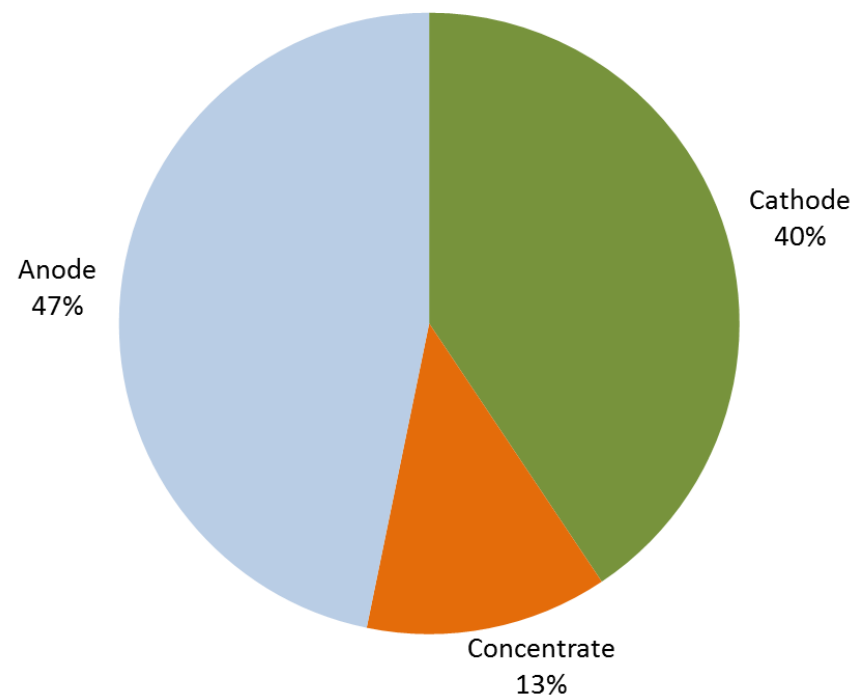


Smelter – KMP sales profile

2014



2016



Products

Copper

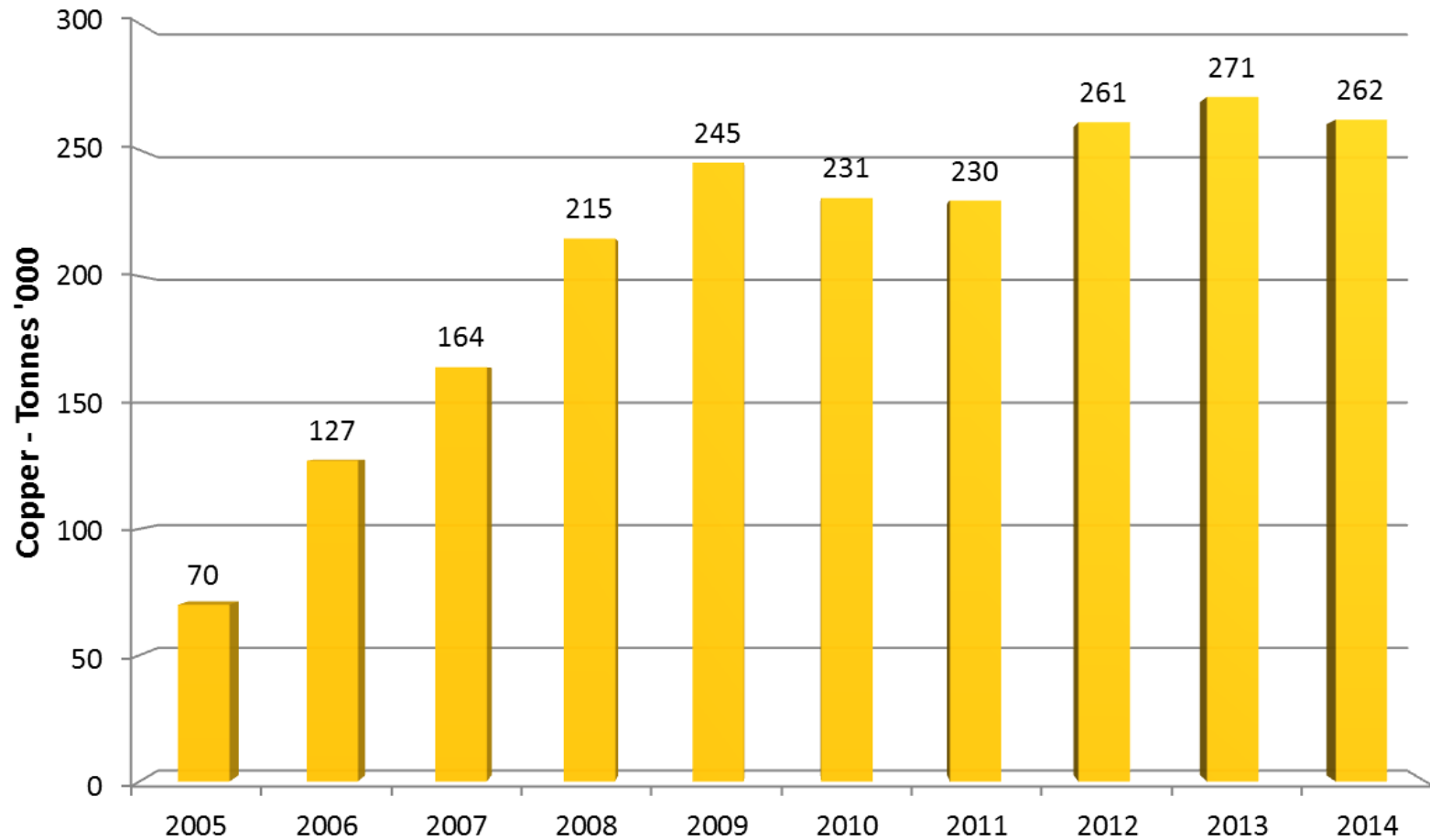
- LME 'A' equivalent Cathode
- Cu Concentrate
- Anode (2015)

Gold

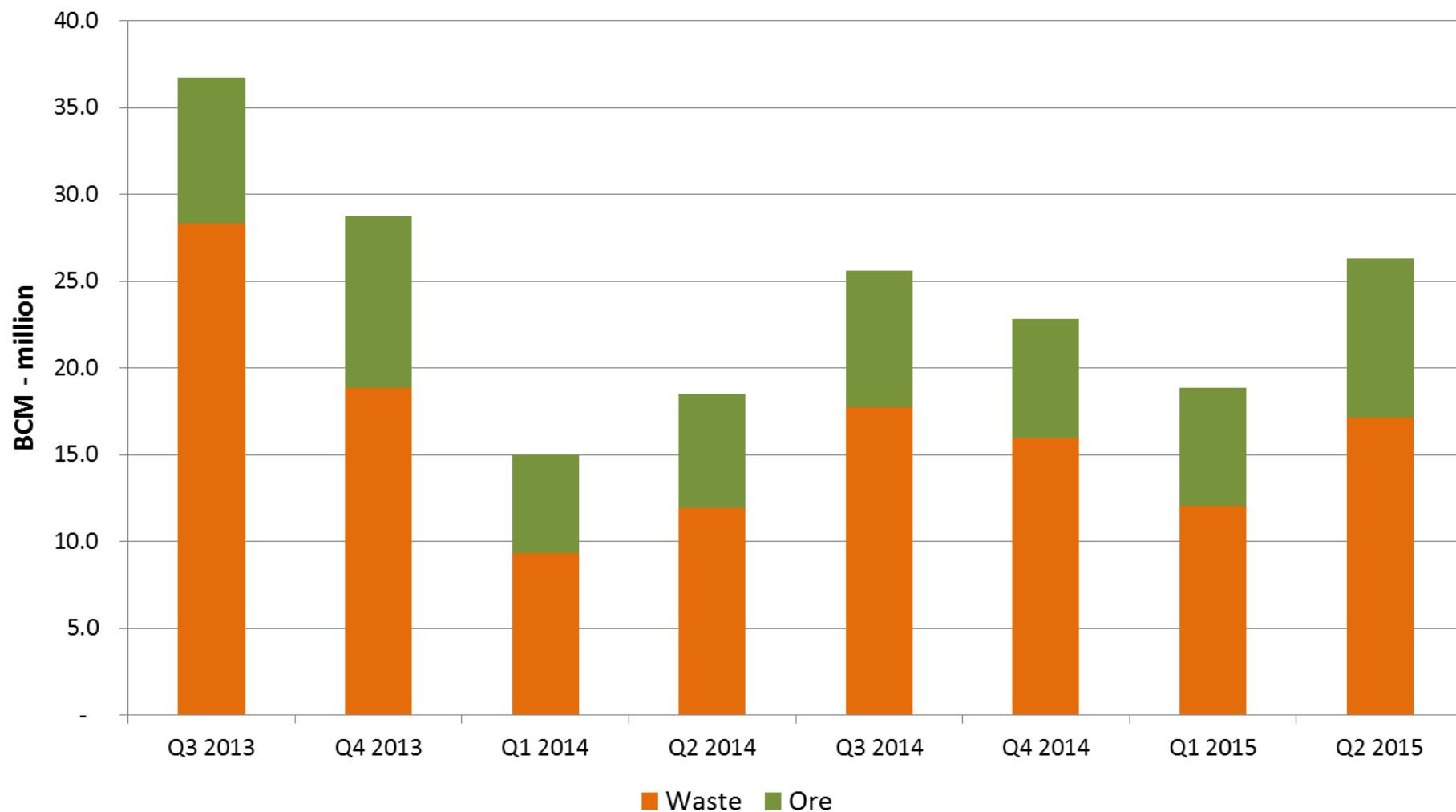
- Gold Dore
- Gold in Copper concentrate
- Gold in Anode



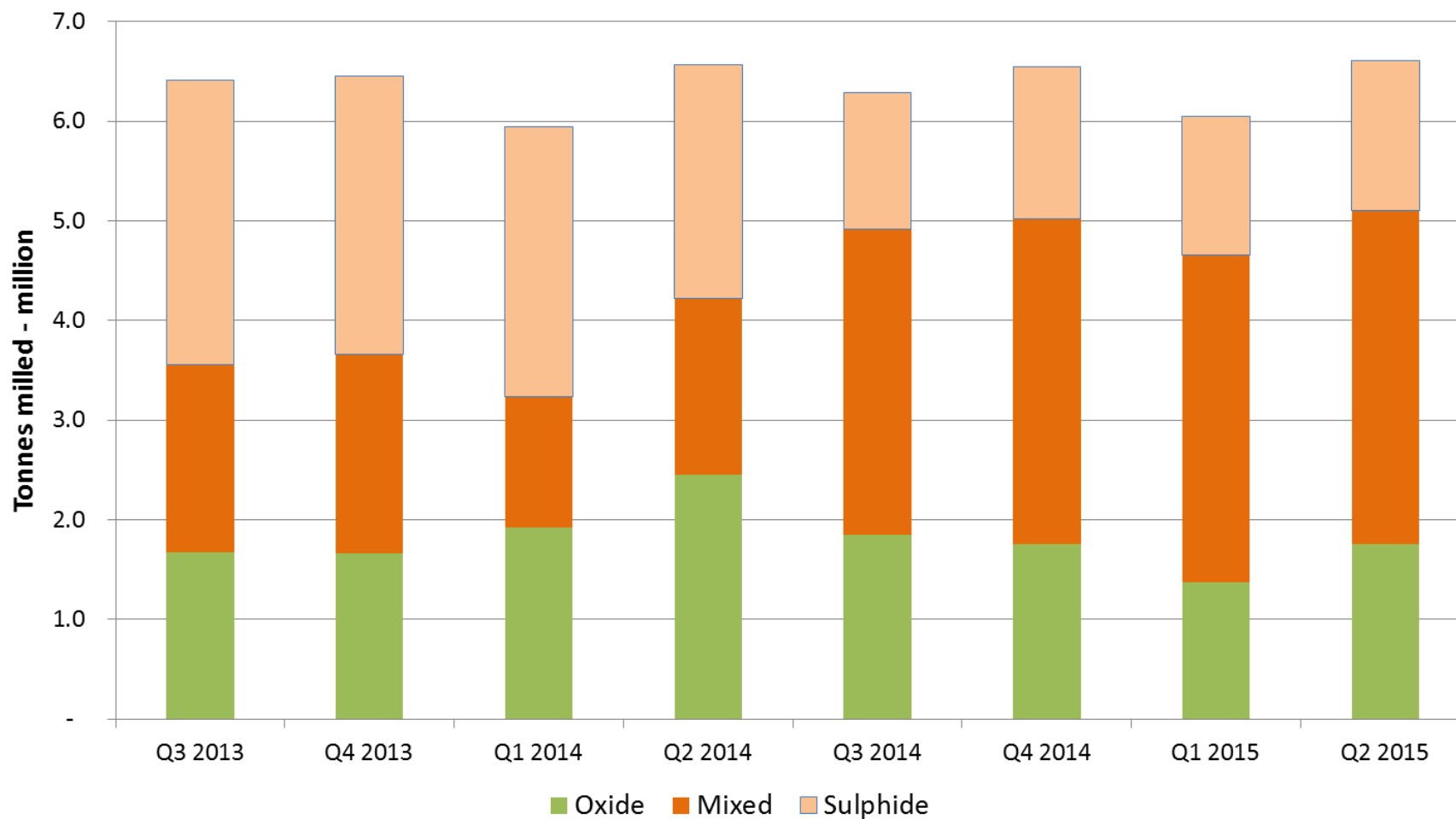
10 years copper production – 2.1 million tons



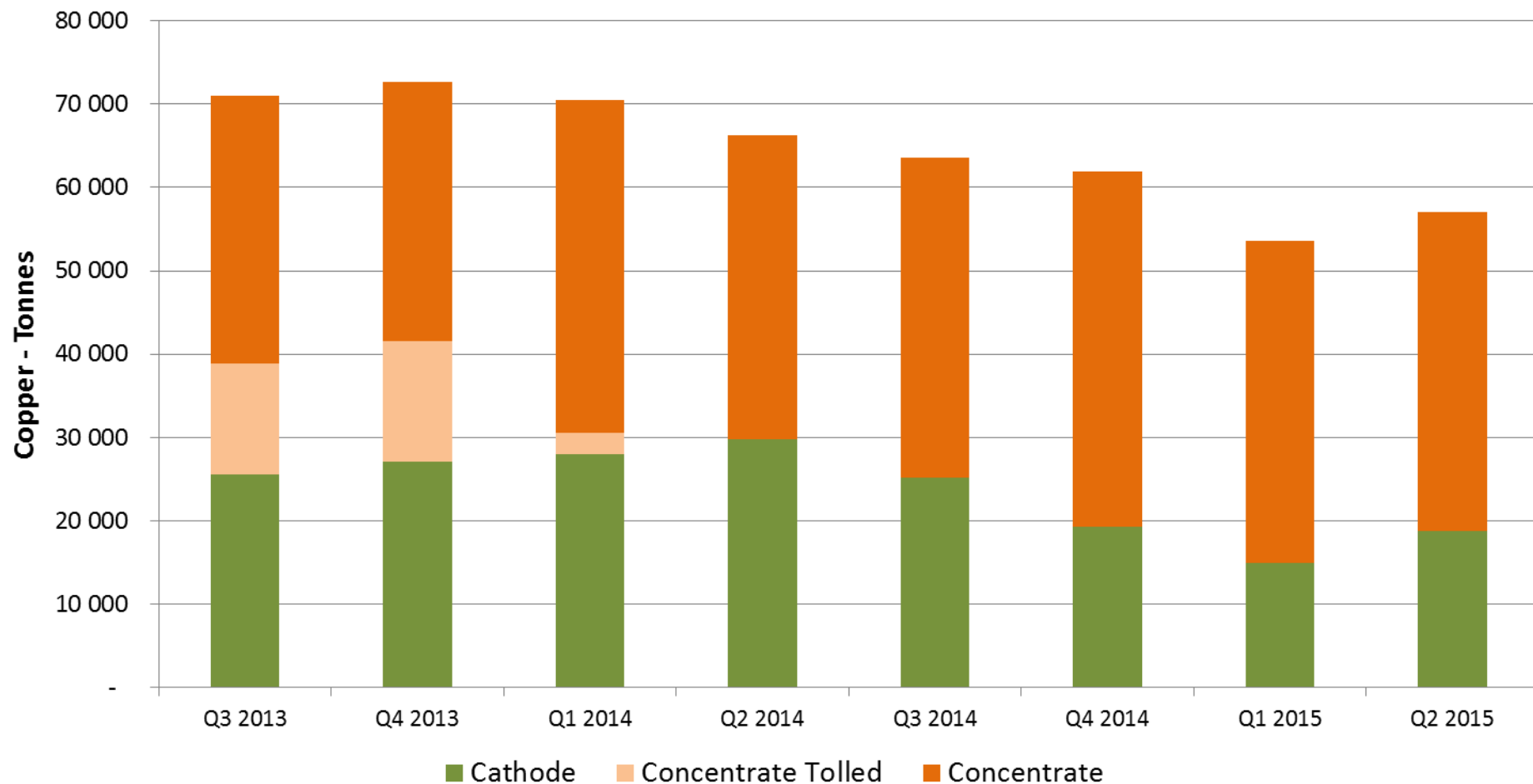
Quarterly performance - Mining



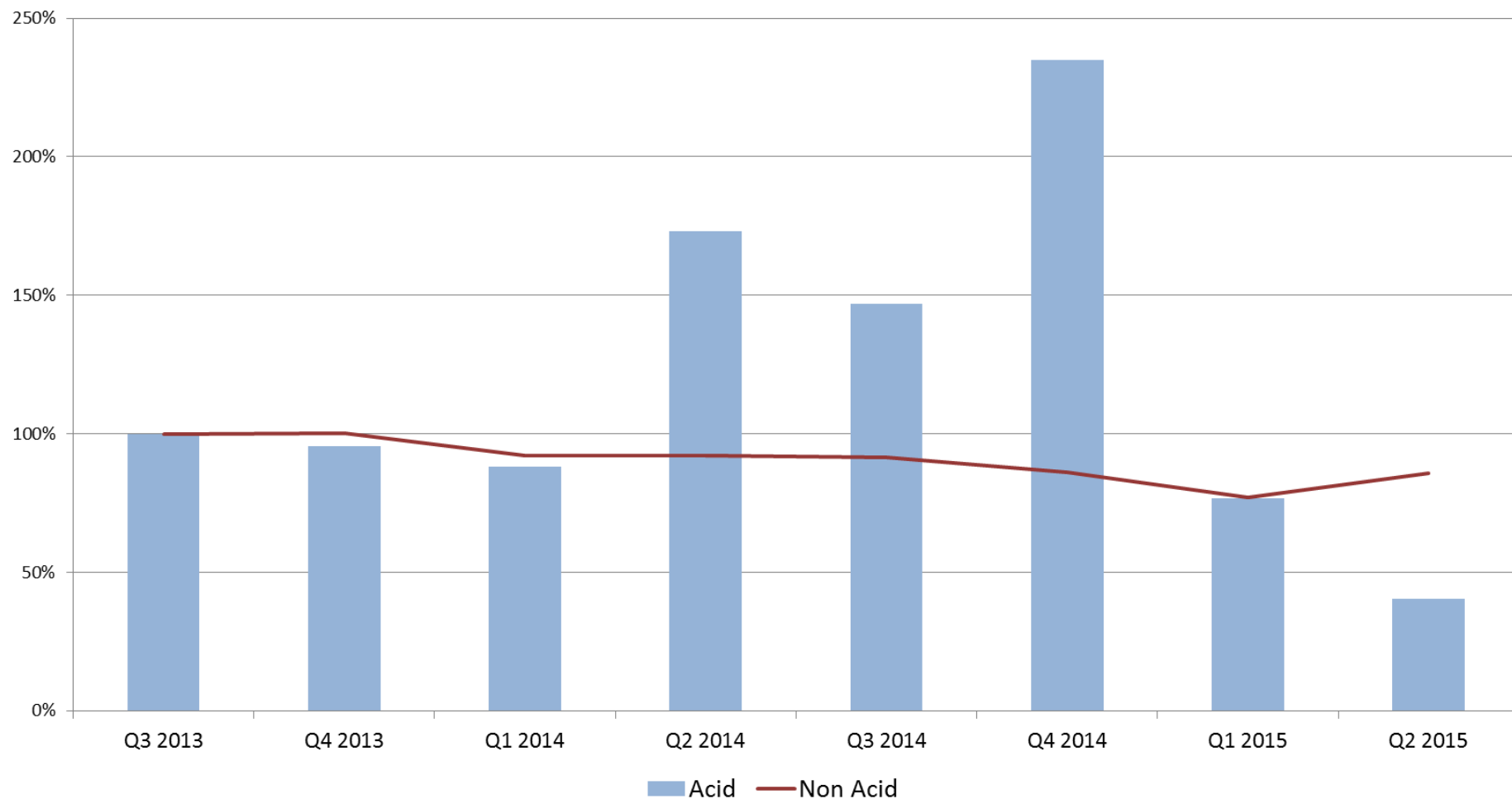
Quarterly performance - Milling



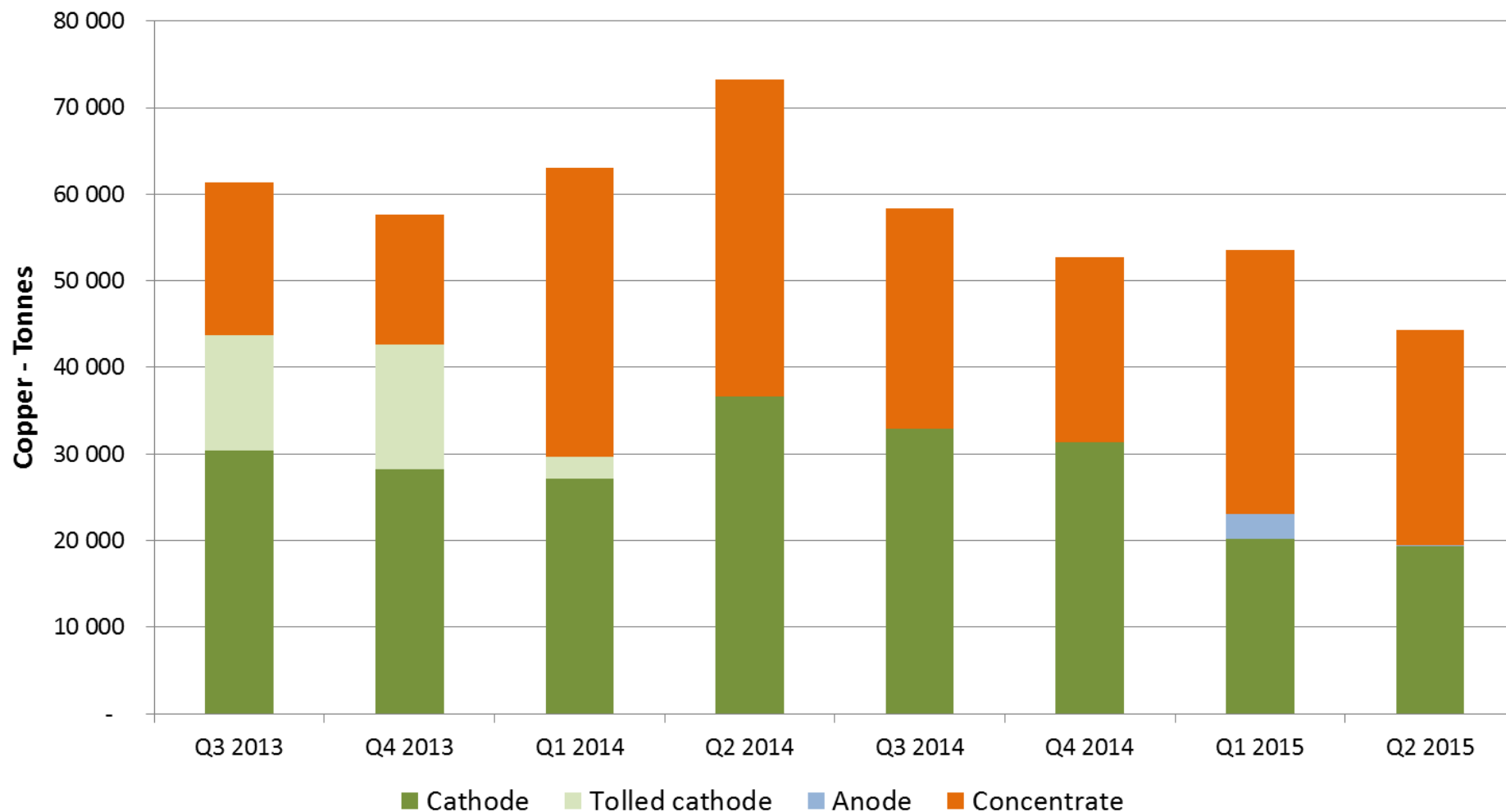
Quarterly performance – Copper production



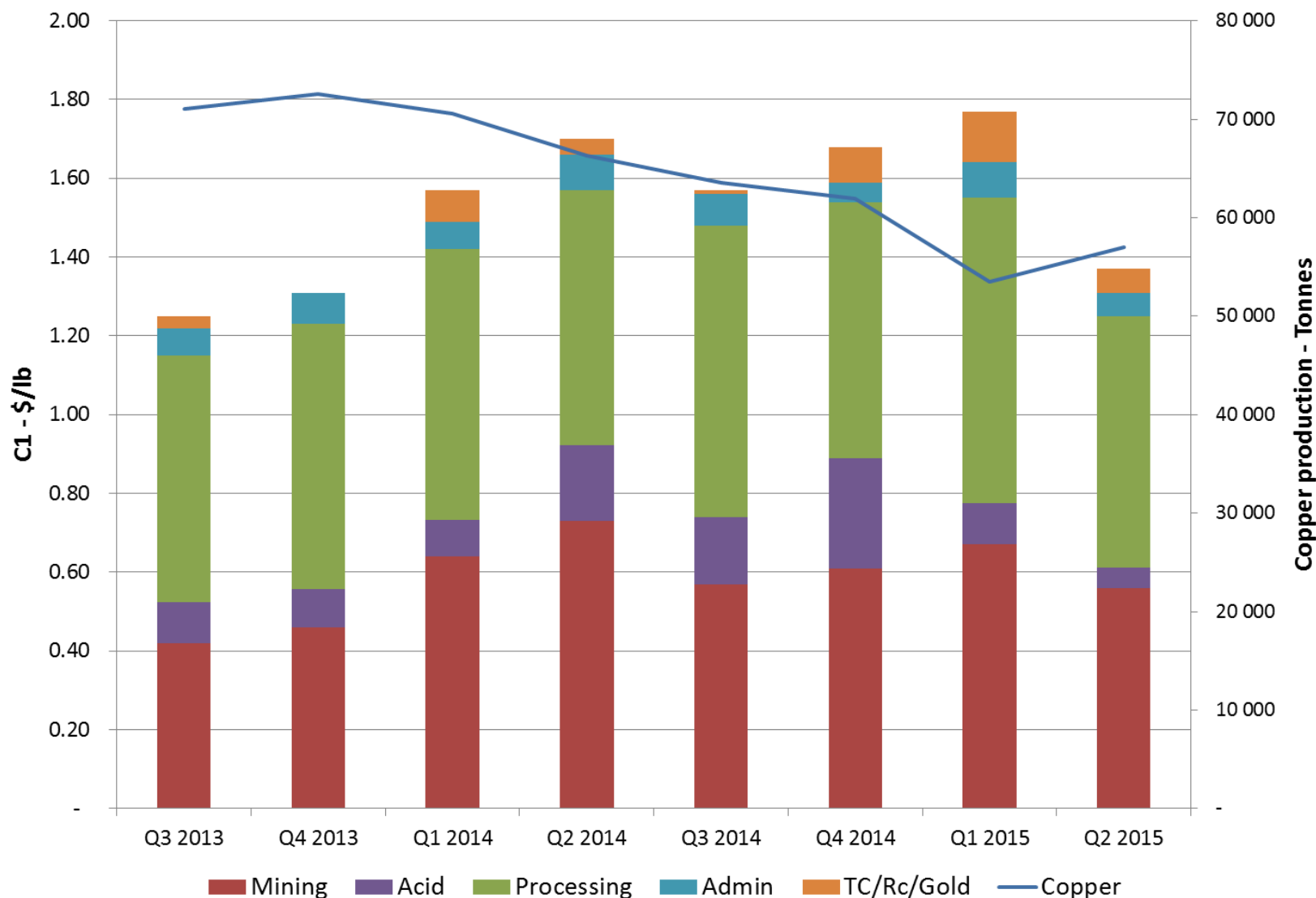
Quarterly changes in cash cost



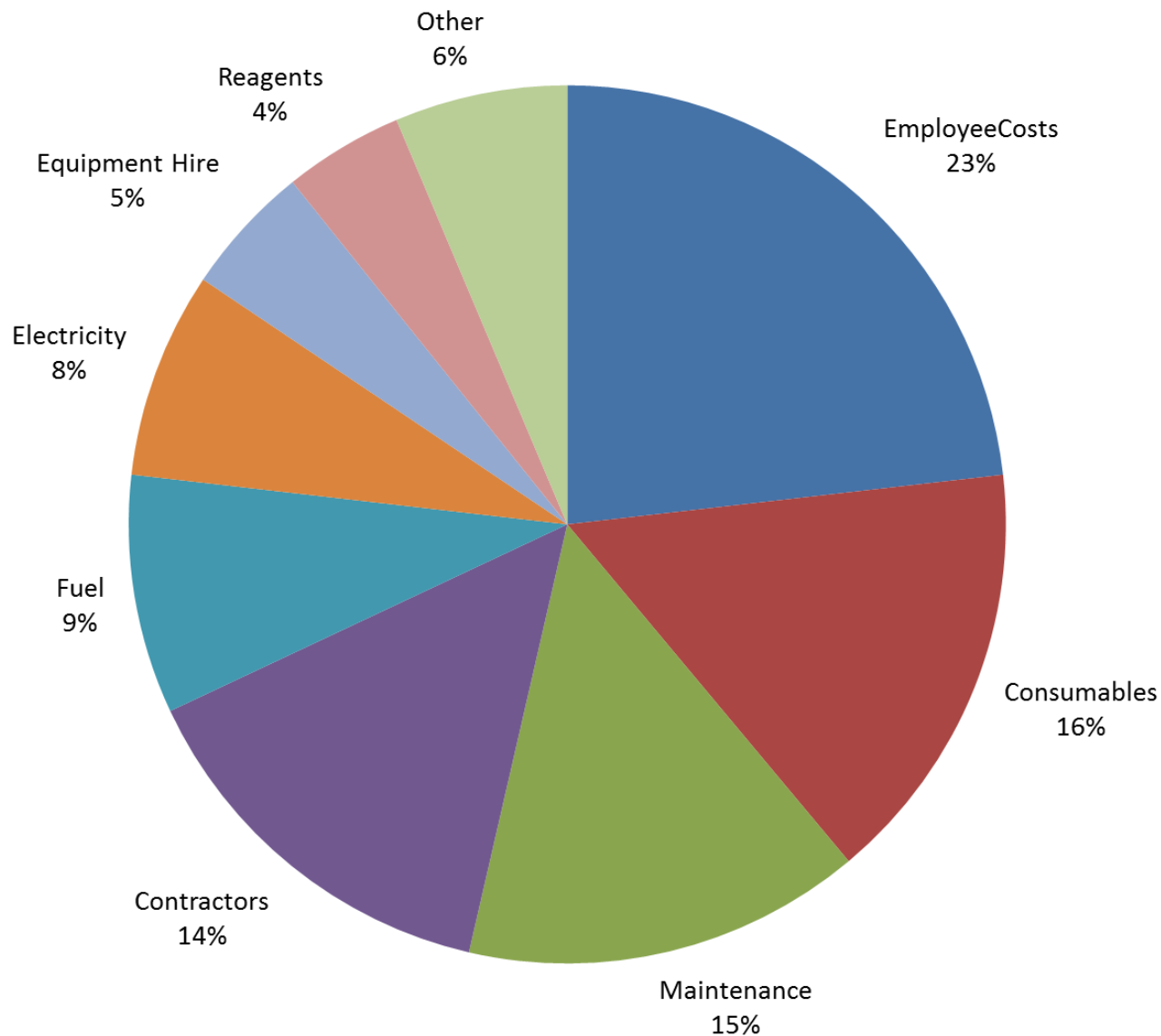
Quarterly performance – Copper sales



Quarterly performance - C1 movement



C0 composition



2015 cash & cost saving measurements

Employee costs

- Reduced personnel including contractors
- 20% salary reduction
- 60% overtime reduction

Consumable costs

- Reagents including NaHS
- Explosives and explosive services

Capital

- Reduced capital programs
- Eliminate most discretionary capital spent

Current cost saving program

- Dedicated team
- Renegotiate prices and contracts
- Reduction in working capital incl. consignment inventory



Kabitaka Housing Development

- 
- 642 Houses
 - 100 Stands with foundations
 - 250 Empty stands
 - Commercial and other plots
 - 360 Desk Primary School
 - 360 Desk Middle School



2015 / 2016 Challenges - Internal

Mining

- Changing orebody
- Mine development for plant expansion

Plant

- Plant recoveries
- Optimise copper output based on smelter acid

Smelter

- Optimise smelter performance

Cost

- Cost reduction
- Productivity improvements



2015 / 2016 Challenges - External

Electricity supply

Commodity prices

Strength of Zambian Kwacha

VAT refunds



Kansanshi Mining Plc



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