Nickel West Analyst Presentation

Chris Pointon

President - Stainless Steel Materials

11 December 2006



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Ore Reserves and Mineral Resources

The information in this presentation that relates to Ore Reserves and Mineral Resources is as at 30 June 2006 and is based on information prepared by the relevant Competent Persons. The Competent Persons agree with the form and context of the Mineral Resources and Ore Reserves presented. The complete tables of Ore Reserves and Mineral Resources as at 30 June 2006 (including the relevant Competent Persons) for Stainless Steel Materials are presented in the BHP Billiton Annual Report 2006 on pages 74 and 75.



Agenda – Nickel West Analyst Presentations

Introduction	Chris Pointon – President SSM
Marketing & Sales	Stephen Williams – Marketing Director SSM
Nickel West	Jimmy Wilson – President Nickel West
Financial Overview	Andrew Fitzgerald – Vice President Finance
Kwinana Nickel Refinery	Brett Swayn – General Manager KNR



Underlying EBIT performance continues to improve

Year ended June (US\$M)

Stainless Steel Materials

- Record nickel production
- · Yabulu expansion on schedule
- Yabulu gas conversion to improve unit costs
- New team at Ravensthorpe and tracking revised costs & schedule since August

2006 2005 % Change 901 712 †27%





Overview – consistent records achieved

Stainless Steel Materials CSG Performance Summary									
Description	Unit	FY02	FY03	FY04	FY05	FY06			
EBIT ROC	%	0%	9%	31%	31%	20%			
EBIT Margin	%	1%	14%	32%	31%	31%			
EBIT	US\$m	6	150	561	712	901			

Note: Nickel West is included in the reported results for the month of June 2005 in FY05, and FY06 includes a full year of results from Nickel West. Years prior to FY05 have not been restated for the impact of adopting International Financial Reporting Standards (IFRS).



Analyst visit to Nickel West

Marketing and Sales Overview

Stephen Williams - Marketing Director SSM

11 December 2006



Agenda – Nickel West Marketing and Sales Overview

- LME Prices and Stocks
- Stainless Growth
- Nickel Supply and Demand
- Sales Profile

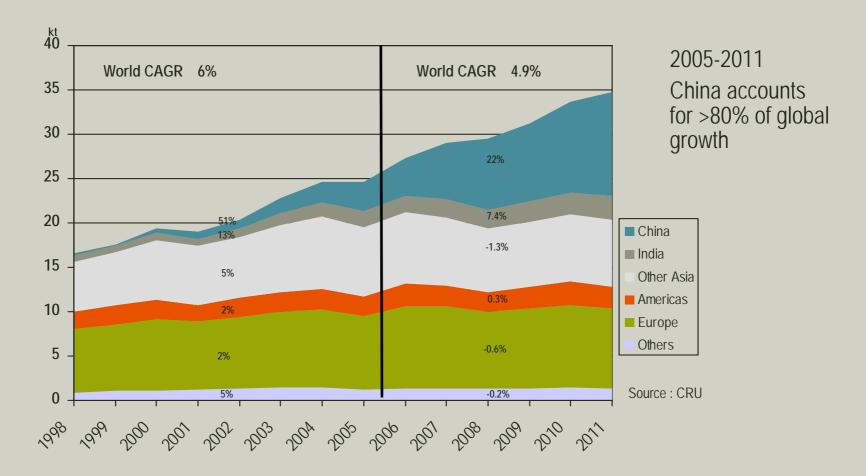


LME Nickel Price and Stocks





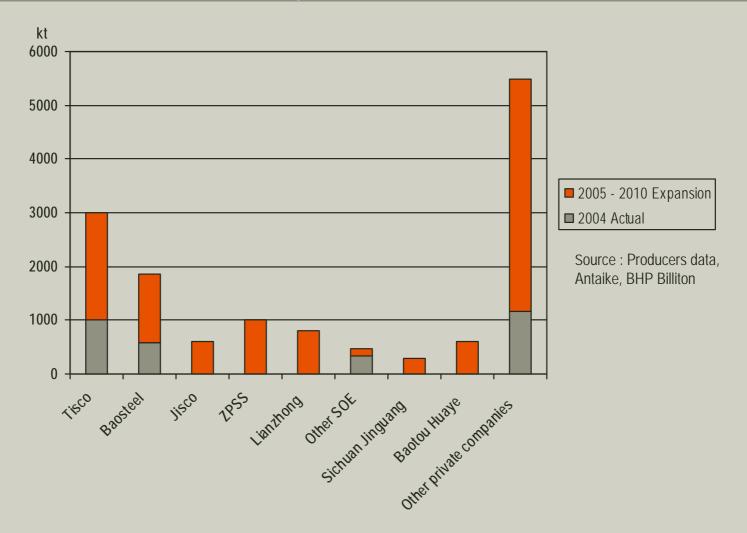
Stainless Steel Production 1998 - 2011



China will become the world's leading stainless steel producing nation this year



China Stainless Steel Expansion

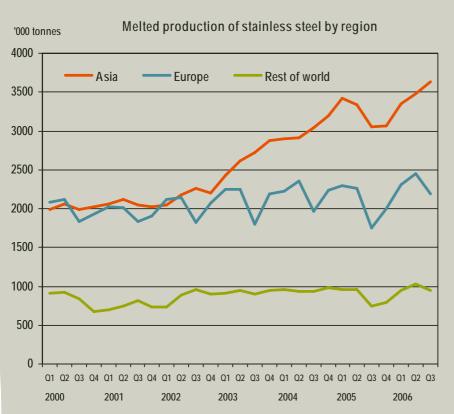


By 2010, ~ 10 Mt of crude stainless capacity will be added

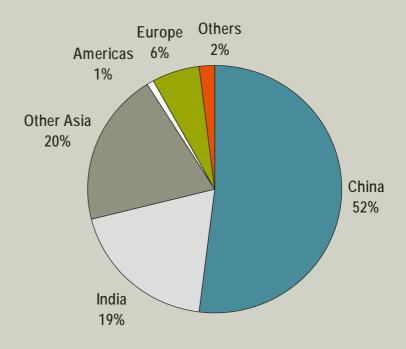


Growth in stainless steel production expected to continue

Asian melted stainless production continues to rise in 2006



50% of global growth in 2000-2005 took place in China



In 2005-2007, the growth will be further skewed towards China

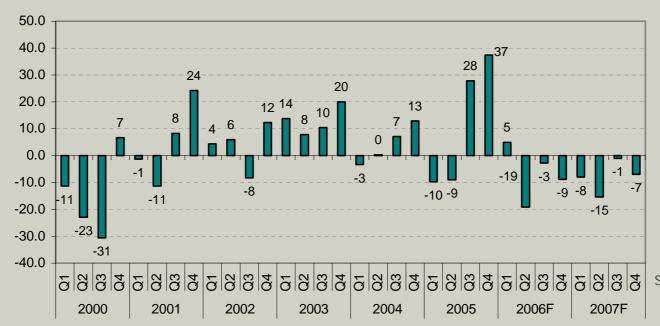
Source: BHP Billiton



Strong nickel demand continues

	2003	2004	2005	2006F	2007F
Global Supply (kt)	1286	1276	1279	1341	1413
% change	2.3%	4.8%	1.4%	4.9%	5.3%
Global Consumption (kt)	1234	1259	1233	1367	1444
% change	1.4%	2.0%	-2.1%	10.9%	5.6%
Surplus/(Deficit)	52	17	47	-26	-31

'000 Tonne World Nickel Supply & Demand Balance





Nickel market is in structural tightness

Nickel demand remains robust

- 300 series remains the workhorse of the stainless industry because of "core" applications
- Strong growth in the aerospace industry and land-based turbines
- Hybrid electric vehicles provide a positive development for long-term growth

Real constraints to supply

- No major technological revolution anticipated
- Capital costs are high
- Nickel demand is, however, sufficiently elastic to avoid a prolonged period of high prices
- Nickel bearing stainless steels remain costcompetitive against alternatives in their core applications





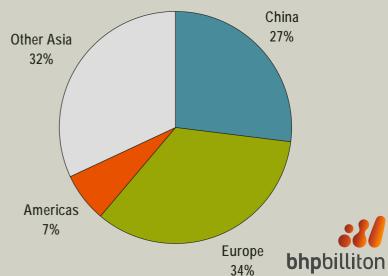


Sales reflect solid foothold in growth markets



Nickel West Sales Material Breakdown FY06 Matte 37%





Analyst visit to Nickel West

Nickel West Overview

Jimmy Wilson – President Nickel West

11 December 2006



Agenda – Nickel West Overview

- Nickel West Business
- Nickel West's Operations
- Pursuing the Basics
 - Zero Harm
 - Success through People
 - Business Excellence
 - The BHP Billiton Way
- Exploration and Asset Life Extension
- Downstream Efficiency
- Summary



Nickel West – a new and significant business

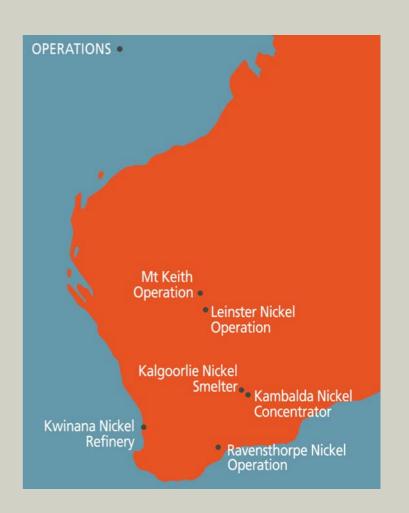
- In June 2005, BHP Billiton acquired WMC Resources
- WMC's WA nickel operations incorporated into the Stainless Steel Materials CSG as "Nickel West"
- SSM now the world's third largest nickel producer
- Nickel West is the world's third largest producer of nickel concentrate, providing 16% global nickel concentrate production
- Produced 100 Kt contained nickel in FY06
- Nickel exports of US\$1.6B in FY06
- Approximately 3,000 people employed in current operations



Nickel West – a number of operations

Nickel West's operations include:

- Mt Keith Operation (mine and concentrator)
- Leinster Nickel Operation (mine and concentrator)
- Kambalda Nickel Concentrator
- Kalgoorlie Nickel Smelter
- Kwinana Nickel Refinery
- Ravensthorpe Nickel (added to Nickel West in September 2006)





Mt Keith Mine & Concentrator

Mine

- Reserves of 243 Mt @ 0.54% Ni (incl. stockpiles)
- Mining rate of ~40 Mbcm/a
- Mine life of over 20 years (incl. stockpiles)

LIBHER

Concentrator

- Ore throughput ~11.5 Mt/a
- Recovery of 60-70%



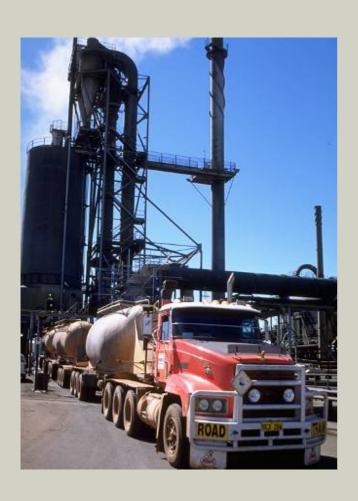


Production

35-40 Kt/a Ni in Conc. @ ~20% Ni grade



Leinster Mines & Concentrator



Mines

- Perseverance underground ore reserves of 14.5 Mt @ 1.9% Ni – life to ~2013
- Satellite operations planned at Cliffs & Rocky's Reward

Concentrator

- Ore throughput ~3 Mt/a
- Recovery of ~86%

Production

35-40 Kt/a Ni in Conc. @ ~12% Ni grade



Kalgoorlie Nickel Smelter & Kambalda Nickel Concentrator



Smelter

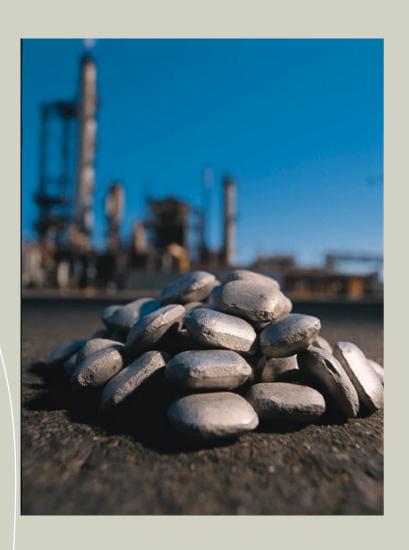
- Outokumpu flash smelter
- 750 Kt/a conc. capacity (~105 Kt Ni in matte)
- 10 year+ furnace campaign life
- Furnace re-brick expected ~2010
 - currently reviewing options
 - option to increase MgO tolerance

Concentrator

- Ore throughput ~1.6 Mt/a
- Production of 35-40 Kt/a Ni in Conc. @ ~13%
 Ni grade
- Output driven by nickel price & third party resource base

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Kwinana Nickel Refinery



- Based on Sherritt-Gordon technology
- Efficient, low cost producer
- Premium briquette product
- Uses autoclave pressure leaching
- History of low-cost debottlenecking
- Competes with global refineries for matte supply from Smelter
- Production of ~65 Kt/a LME metal briquettes



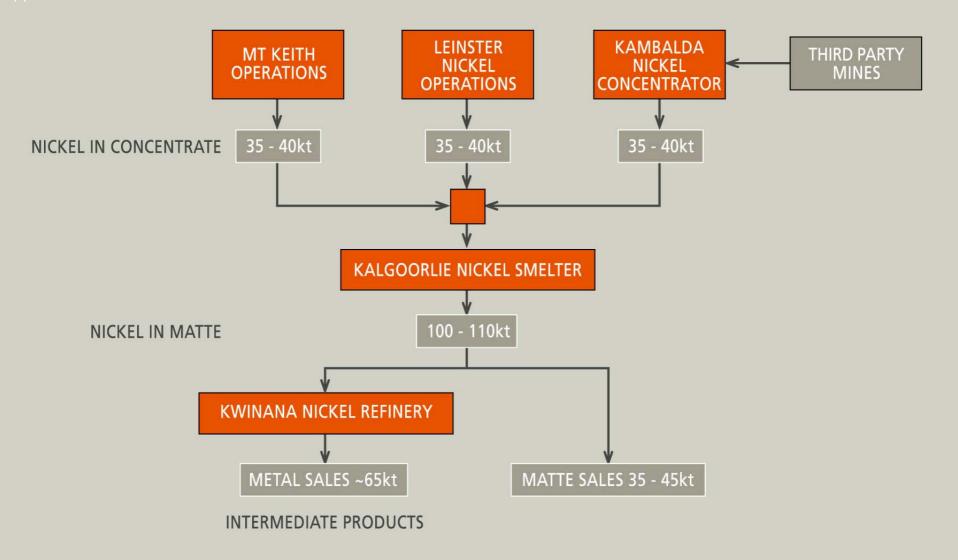
Ravensthorpe Nickel Operations

- Mine, treatment plant and associated infrastructure
- Will produce a mixed nickel-cobalt hydroxide intermediate product for 25 years
- Product to be shipped to SSM's Yabulu refinery in Queensland
- Ore reserve of 238 Mt @ 0.68% Ni
- Expected capital cost US\$2.2 B
- First metal from Yabulu refinery Q1 CY 2008
- Capacity up to 50 Kt/a contained nickel in concentrate and 1,400 t/a cobalt





Nickel West Current Operations Flow Chart



Nickel West strategy

Vision:

Passion, people, innovation and performance with Zero Harm – Nickel at its best

Mission:

We are
passionate about zero harm,
our people, and business
excellence. We must be best in
world at finding and acquiring
resources, mining,
concentrating and leveraging
intermediates. Our business
drivers are TRIFR and
increasing enterprise value.

Relentlessly pursuing the Basics starts with Zero Harm

Find, acquire and develop resources to fill downstream assets and go concentrate long

Downstream efficiency & innovation to maximise EBIT margin



Post-acquisition – Laying the base for a sustainable future

FY06 FY07 FY08 FY09

Zero Harm

Zero Harm, Integration, The BHP Billiton Way

Volume

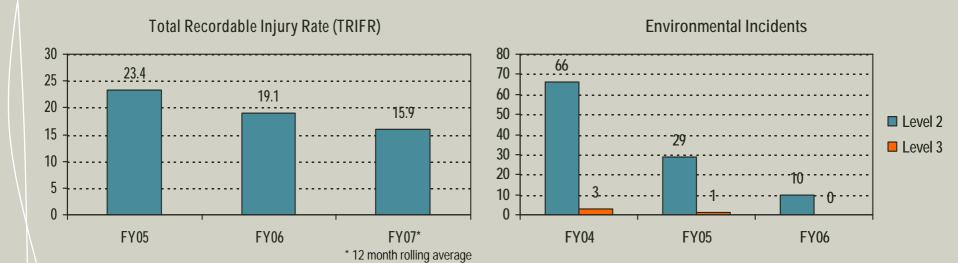
Capacity utilisation, Recovery, Cycle times

Cost

Cost control, Elimination of waste, Procurement



Zero Harm – integrated systems delivering results



Strategy post acquisition:

- Get it safe Zero Harm a key focus
- Get it stable Operational discipline
- Secure and grow the future



Kalgoorlie Smelter Tapping Floor

Before



After





Leinster Store

Before



PPE Storage

After





Access Step





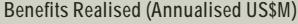
People – building and retaining a talented workforce

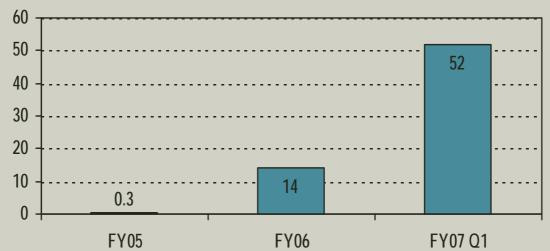
- Integration a great success; done and dusted
- Management team integrates BHP Billiton and WMC personnel
 - Creating a team rich in asset knowledge and nickel industry expertise
- Organisational structure self-sufficient and accountable (EBIT model)
 - Clear strategy and direction aligned to business plans
 - Clear lines of accountability; business and personal metrics deployed
- Leveraging off BHP Billiton brand to attract and retain staff in a very competitive market
- Nickel West has ~1,400 employees and ~1,600 contractors in current operations
 - Employee base has been an "All Staff" workforce since 1994



Business Excellence - gaining momentum

- Nickel West driving improvements using Six Sigma under the BHP Billiton Business Excellence (BE) banner
- BE culture implemented through appropriate structures, resourcing, metrics and KPIs
 - Benchmarked against best in class
- Rigorous application of measurement protocols
- Benefits realised cover ongoing cost and revenue benefits

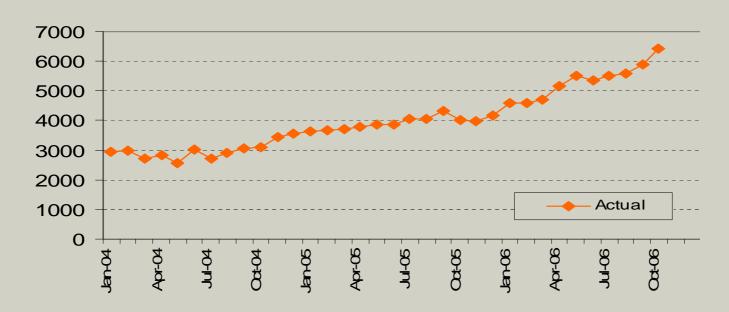






Mt Keith BE = Increased tyre life, decreased cost

KPI R57 Tyres - Last 25 Average Scrap Hours: CI Project



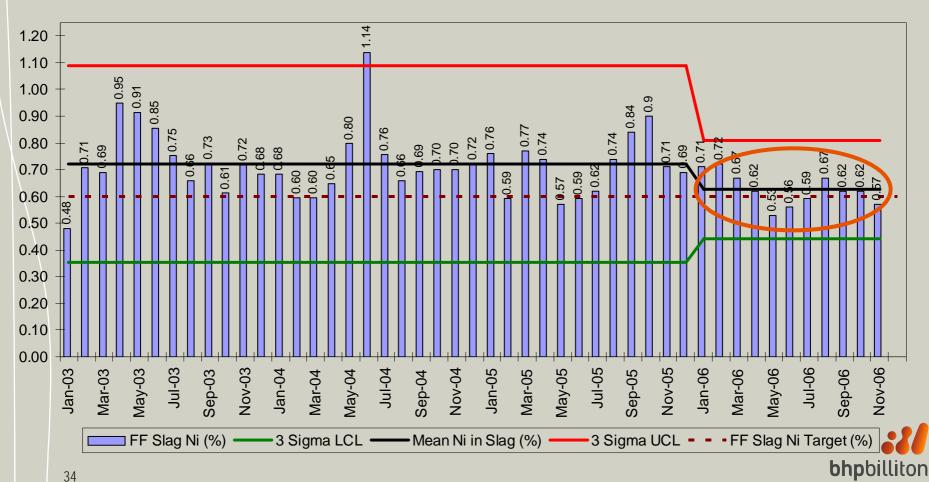
- Tyre life more than doubled
- Average 6,000+ hours for tyres removed in last two months
- One tyre currently on a truck is over 9,000 hours old



Kalgoorlie Smelter BE = Increased nickel matte output

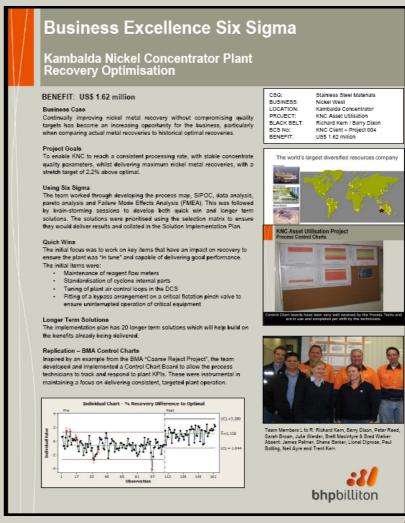
 Recent performance has been a step change improvement downwards compared to previous 3 years

Nickel in FF Slag 2003 to 2006



Business Excellence – Nickel West recognition for delivery

- Kambalda Concentrator
 Recovery Optimisation project
 selected in Top 10 for BHP
 Billiton for FY06
- Benefits realised at Kambalda Concentrator include higher recoveries and lower maintenance costs





Nickel West – growing value – the BHP Billiton Way

- Health and Safety Du Pont, behavioural safety
- Community deliberate participative approach aligned to BHP Billiton's approach and funding models
- People aligning with BHP Billiton brand; positive impact on attractiveness in market place
- Alignment/synergies with other BHP Billion nickel assets marketing approach reflects portfolio approach
- Mine planning better, deeper, clearer understanding of resources
- Third parties better relationships with Third Party nickel providers;
 for the long term
- Asset based accountability Asset fully accountable for results and self-sufficient in key services
- Business Excellence driven under the BHP Billiton BE banner

Nickel West strategy

Vision:

Passion, people, innovation and performance with Zero Harm – Nickel at its best

Mission:

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Relentlessly pursuing the Basics starts with Zero Harm

Find, acquire and develop resources to fill downstream assets and go concentrate long

Downstream efficiency & innovation to maximise EBIT margin



Exciting exploration opportunities

- Focus on low cost near-mine 'Brownfields' opportunities near existing infrastructure
- 'Greenfields' opportunities also being explored
- US\$13M exploration expenditure planned in FY07





Asset life extension opportunities – Leinster

Cliffs

- Mineral resource of 2.5 Mt @ 4.3% Ni
- Initial infrastructure established
- Initial mine development to date >1,000m
 - Mid-2007 completion
- Feasibility to be completed mid-2007

Perseverance Deeps

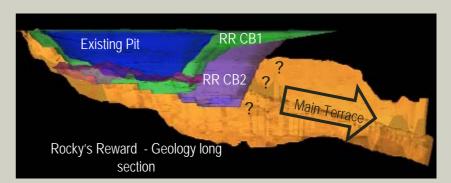
- Mineral resource of 12 Mt @ 2.2% Ni
- Pre-feasibility study to be completed in 2007
- Block Caving likely preferred mining method
- Potential to extend Leinster operations to ~2020

Rocky's Reward

- Mineral resource of 6.4 Mt @ 1.4% Ni
- Cut back 1 commenced mining
- Cut back 2 commenced pre-feasibility study







Asset life extension opportunities – Mt Keith

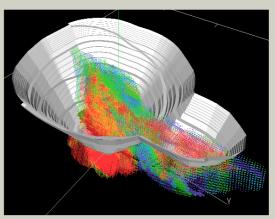
Mt Keith - Stage H

- Mt Keith operated since 1994
- Currently mining Stage F
- Commenced mining Stage G
- Stage H from 2008 2015
- Part of total Mt Keith ore reserve of 243 Mt @ 0.54% Ni (incl. stockpiles)



Yakabindie

- Pre-feasibility completed
- Mineral resource of 434 Mt @ 0.58% Ni
- Expected to contribute value in the long-term
- Deferred partly due to heated WA market



Asset life extension opportunities - Kambalda

Objectives

- Extend life and output of the Kambalda region
- Targeted win-win partnerships
- Nickel West participates through concentrate purchase agreements

Mines

- Divested to small focused operators under WMC
- Exceeded expectations in resource conversion

Future Growth

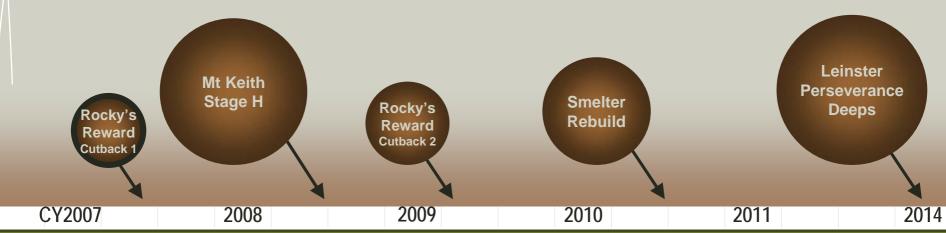
 Third parties investing heavily in exploration and mine development

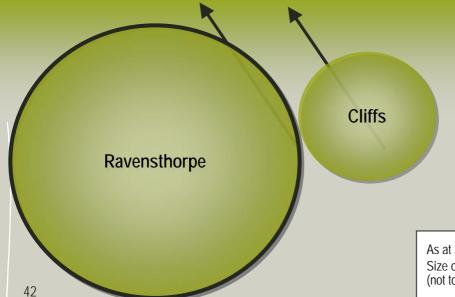




Nickel West pipeline

BROWNFIELD





GREENFIELD

As at 30 November 2006.

Size of bubble indicates relative size of proposed capital expenditure (not to scale); Bold outer border signifies sanctioned project.



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Kalgoorlie Nickel Smelter

Business Excellence

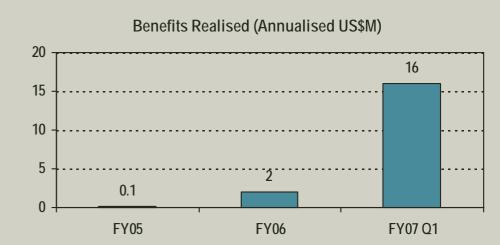
- BE Manager and BE Engineer in place
- · Benefits realisation underway & growing
- BE KPIs for all Management Team
- Pipeline of projects (10 in investigation; 5 in implementation)

Margin Improvement

Matte margins attractive

Furnace Rebuild Project

- Current campaign smelted >5 Mt concentrate since 1999
- Campaign life extension program has achieved good results
- Pre-feasibility study in progress to rebuild with improved furnace design post 2010





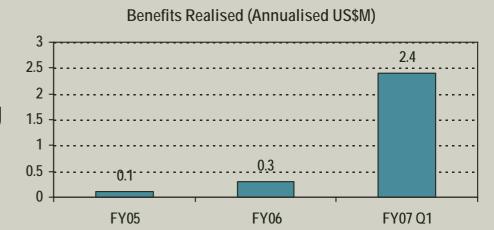
Kwinana Nickel Refinery

Business Excellence

- BE Superintendent in place
- Benefits realisation underway & growing
- BE KPIs for all Management Team
- Pipeline of projects (2 in investigation; 2 in implementation)

Margin Improvement

- Metal premiums remain strong
- Intermediate products maximising production of valuable commodities





Nickel West summary

- Zero Harm is our core value
- Nickel West is a key asset for SSM and BHP Billiton
- We have an integrated suite of operations that maximises value
- We are building and retaining a talented workforce
- We are applying Business Excellence and Six Sigma as cornerstones for improvement
- We are embedding the BHP Billiton Way into our operations
- We have exciting exploration and asset life extension opportunities
- We focus on margin maximisation at downstream operations
- We are focussing on creating a long term sustainable future



Analyst visit to Nickel West

Nickel West Production and Financial Outcomes

Andrew Fitzgerald – Vice President Finance Nickel West

11 December 2006



Agenda – Nickel West Production & Financial Outcomes

- Production
- Financial Outcomes
- Cost Structure
- Input Cost Pressures



Production – Matte production consistent with prior years

	FY03	FY04	FY05	FY06	FY07 Q1
Matte (Kt)	94	101	105	100	25
Metal (Kt)	64	60	66	62	13

History for FY03, FY04 & FY05 has been derived from WMC's CY02, CY03 & CY04 reported results re-constructed into fiscal years. CY02, CY03 & CY04 production reported for WMC was 92 Kt, 99 Kt & 98 Kt respectively for Matte and 65 Kt, 61 Kt & 63 Kt respectively for Metal.



Financial Outcomes - Price the key driver at present

Basis of reporting different now to WMC reported results

- Fair value accounting
- Accounting policies (deferred stripping and closure accounting)
- US\$ reporting
- Overheads
- •IFRS

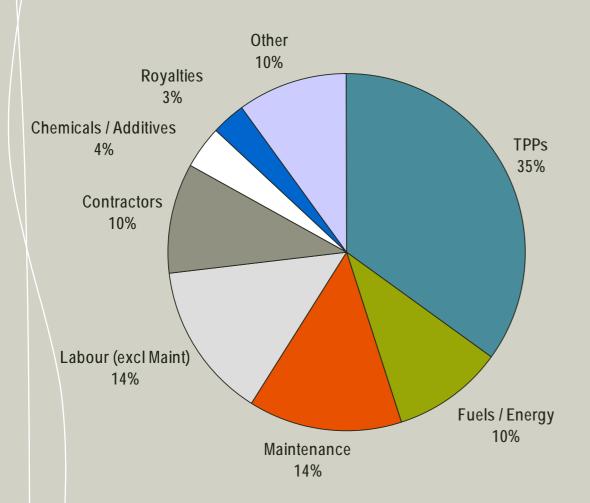
	FY06
Revenue (us\$m)	1,673
Revenue (US\$/lb average all despatches)	7.09
Third Party Purchases (TPPs) (US\$M)	383
TPPs (US\$/lb)	4.16
EBITDA (us\$m)	490
Depn & Amort (us\$M)	150
EBIT (US\$M)	340
C1 Unit Costs (US\$/lb; Excl TPPs, Incl IPs*)	2.66
C3 Unit Costs (US\$/lb; Excl TPPs, Incl IPs*)	4.06

Sensitivity to Nickel
Price – each US\$0.01
change in the LME
nickel price changes
EBIT by ~ US\$1.5M
(revenue impact
partly offset by TPP
impact)



^{*} IPs are Intermediate Products, such as copper sulphides, mixed sulphides, ammonium sulphate and acid

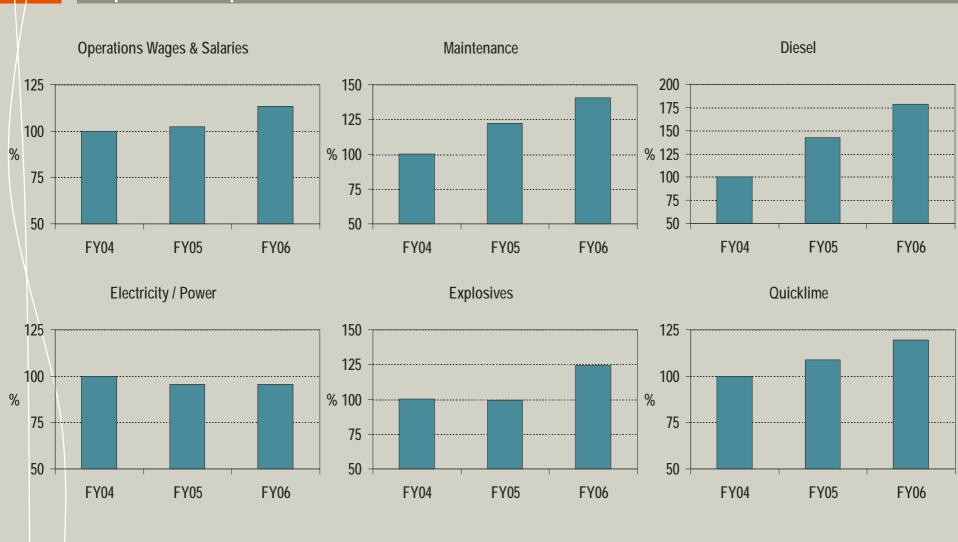
Cost Structure – FY06



- Total cash costs US\$1.1B
- Fixed : Variable split (excl. TPPs) is ~80 : 20
- Key value drivers
 - Volume
 - Cost reduction
 - 46 BE projects in investigation / implementation



Input cost pressures





Analyst visit to Nickel West

Kwinana Nickel Refinery (KNR)

Brett Swayn – General Manager Kwinana Nickel Refinery

11 December 2006



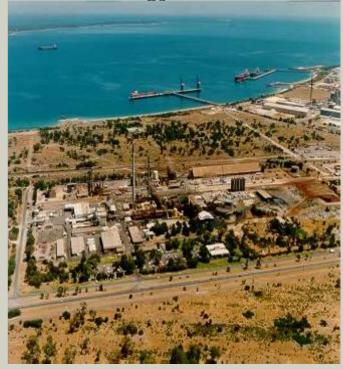
Agenda

- Overview
- Products
- Process
- Strategy
- Performance
 - Zero Harm
 - People
 - Business Excellence
- Production and costs
- Summary



Nickel West – Kwinana Nickel Refinery (KNR) overview

- Reliable feed source from Nickel West Smelter in Kalgoorlie
- World scale production facility using proven technology
 - Sherritt-Gordon process
- Access to gas/power
- Labour
 - Close to metropolitan area for supply
 - All staff workforce
- Kwinana industrial strip synergies
 - Proximity to key reagents/inputs
- Strong Community Reputation
- No solid/liquid waste
 - Markets developed for all intermediate and waste products





KNR Products

Nickel metal

- ~ 65,000 t/a
- LME briquettes and nickel powder
- 26 customers in Europe, Asia, North America

Copper sulphide

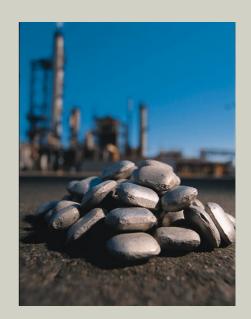
- ~ 4,500 t/a
- 60% copper, 35% sulphur
- sold to Japanese refinery

Mixed sulphides

- ~ 3,500 t/a
- 24% nickel, 30% cobalt, 32% sulphur
- toll refined in Europe, sold by BHP Billiton

Ammonium sulphate

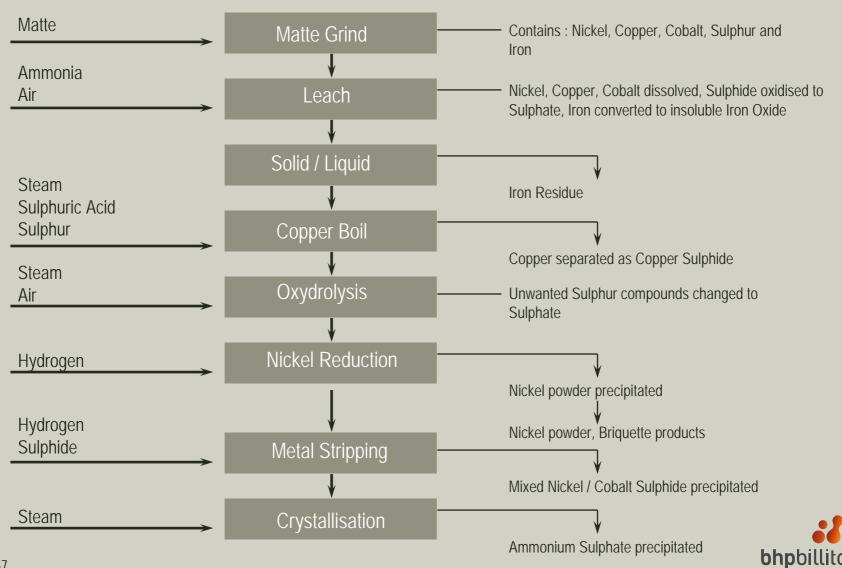
- ~ 180,000 t/a
- 21% nitrogen
- sold to fertiliser manufacturers



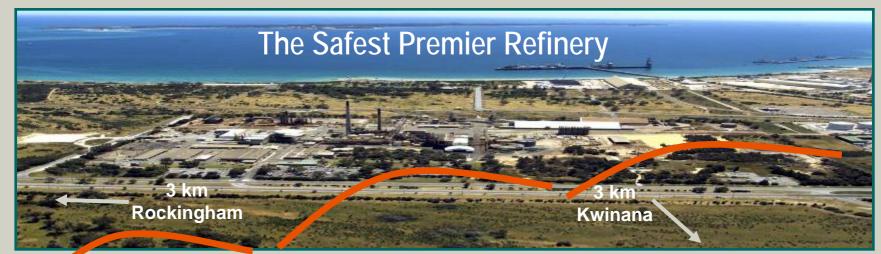


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KNR – A world class process



KNR Strategy – Three Horizons



Relentlessly Pursue the Basics (Reduce Injuries & Increase asset utilisation)

- 7ero Harm
- Engaged workforce
- Producing premium LME product
 World class costs ¢/lb
- Increased reliability
- Targeted capital investment

Build To Last (Safe low cost operation)

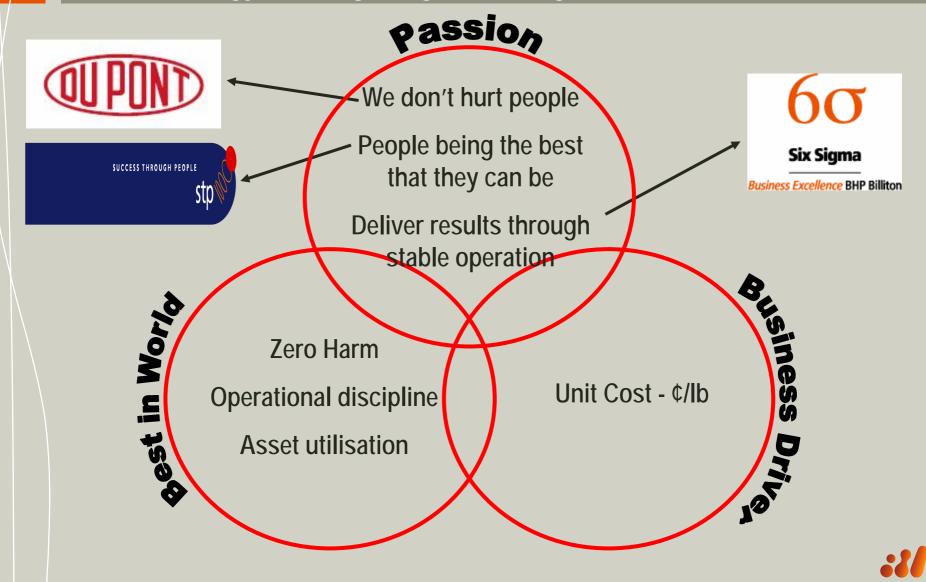
- 7ero Harm
 - Every injury is preventable
 - Leader in risk management
- Building long term win-win contractor relationships
- Intermediate product margin improvement

Create The Future (low cost de-bottlenecking)

- Low cost capacity increase
- SSM synergies



KNR Strategy – Hedgehog Focusing Tool



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KNR Performance - Zero Harm



- Field Leadership / Hazard Reporting & Closeout
- BHP Billiton HSEC Management Standards
- Fatal Risk Control Protocols
- Process Safety Risk Management



KNR Performance - Zero Harm - Amsul Unit

Before



After





KNR Performance - Zero Harm

Nickel Hygiene Study

- Determine baseline levels for nickel exposure in site personnel
- 12 weeks and 405 employees and contractors participated
- Average result within exposure range for general population
- Recognised with a <u>BHP Billiton HSEC Merit</u> <u>Award</u>

Community

- Establishment of a Joint KNR Community
 <u>'Community Participation Team'</u> who assess all
 applications for grants
- Received a 2006 National <u>Landcare Supporters</u> Award





KNR Performance - People

- Management team combines BHP Billiton and WMC backgrounds
 - Draws on asset knowledge and nickel industry expertise
 - Recruiting key talent from relevant industries
- Site accountability with functional support
- Strategy aligned to Nickel West business plans
- 24hr Operation
- 4 Shift Crews
- Employee base is "All Staff" workforce
- Total workforce ~ 400



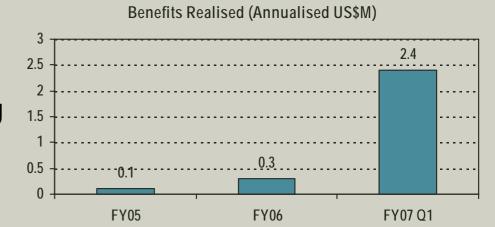
KNR Performance - Business Excellence

Business Excellence

- BE Superintendent in place
- Benefits realisation underway & growing
- BE KPIs for all Management Team
- Pipeline of projects (2 in investigation; 2 in implementation)

Margin Improvement

- Metal premiums remain strong
- Intermediate products maximising production of valuable commodities

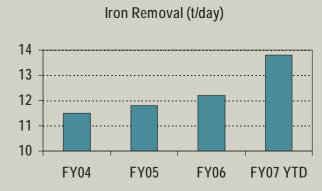




KNR Production

	FY03	FY04	FY05	FY06	FY07 Q1
Metal (Kt)	64	60	66	62	13

- FY07 Q1 production results impacted by residue filtration capacity issues
- Q2 production on track Iron removal improving
- FY07 full year production results will be impacted by major scheduled outage in Q3, as per FY04 production results



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History for FY03, FY04 & FY05 has been derived from WMC's CY02, CY03 & CY04 reported results re-constructed into fiscal years. CY02, CY03 & CY04 production reported for WMC was 65 Kt, 61 Kt & 63 Kt respectively for Metal.

KNR Production – Delivering excellence in a major scheduled outage

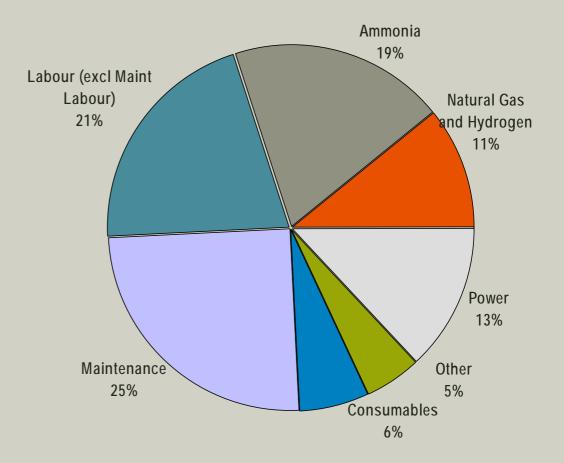
- Planned 3 yearly outage
 - March 2007 21 day production loss
 - Certified machinery inspections
- HSEC Management Plan
 - Transfer success learnings from Smelter
- Detailed Job List and Cost Control Process with Risk Analysis
- Sourcing of people a key consideration
 - ~600 contractors on site during outage
 - Working with partners and contractors to source quality people in competitive environment
 - Close proximity to metropolitan area for supply
- Benchmarking other sites and industries





KNR Costs – FY06 Cost Structure (excluding matte feed)

- Fixed : Variable split is
 ~67 : 33
- Two key value drivers
 - Low cost capacity creep
 - Business excellence cost reduction





KNR Summary

- Zero Harm is our core value
- We operate a world class asset and a world class process
- We are building and retaining a talented workforce
- We are applying Business Excellence to our operations
- We will deliver excellence during the major scheduled outage
- We focus on margin maximisation

