MINING
Continuing to Grow our Mining Capability
Visitor Safety Induction

Welcome to BHP Billiton Iron Ore Mining Operations

1. Stay with your BHP Billiton escort at all times.
2. Reflective vests, gloves and safety helmets are provided and you will be advised when to wear them.
3. Safety glasses are provided. You will be advised when it is necessary to wear them. Safety glasses will fit over prescription glasses.
4. Use handrails when using stairs.
5. Keep clear of all machinery.
6. In the event of an evacuation or emergency stay with your BHP Billiton escort.
7. BHP Billiton has a NO-SMOKING policy inside buildings and vehicles.
8. You are most welcome to use cameras.

Enjoy your visit with us today
LTIFR & CIFR Whaleback and Contract Mines

- Whaleback LTIFR
- Contract Mines LTIFR
- CIFR All Mines
Behavoural Safety

Upper Management Commitment

Current Learning Exposure
- Statutory Obligations
- Safety Systems
- Improved Practices

Potential knowledge

30 x incident reports to injuries

BEHAVIOUR
- Training
- Values
- Recognition

Business Analysts Visit June 2005
Mining Strategic Focus: 2003 - 2008

Key Points
• Achieve / exceed goals through good planning
• Think beyond short term / regional horizons
• Gain strategic benefits
• People – attract, retain, foster direct relationships
• Organisation consistency
• Secure support for business decisions
• Pace of restructuring
• Keep it simple
• Growth
Mt. Whaleback Pit

Current Pit Dimensions
• Length: 5km
• Width: 1.2km
• Depth: 400m

Current floor at Bench 27

- 8 South Pushback
- East Pit
- 4 N Pushback
- Centre West Pit
- Administration
- Crushing/Train loading facilities
- Beneficiation Plant
- Ore Body 29
Mt. Whaleback Northwall Waste Removal Complete – Project China

23 Mt approx

Waste

High Grade
New Mining Equipment in 2005 to Meet Growth

Drills
1 x IR DM-M3 (251mm)
3 x IR DM-H4 (311mm)

Shovels & Excavators
1 x P & H 2800
2 x O & K RH200
1 x O & K RH170
New 2 x R996 Shovel
New 1 x R994 Backhoe
New 1 x R995 Shovel

Trucks
17 x CAT 789B 189T
13 x CAT 793B 219T
New 10 x CAT 793C 230T

Loaders
3 x CAT 994
1 x CAT 992D
New 2 x CAT 992G
Excellent Tyre Management
(Average Scrap Life trends vs Industry Average)
Tyre Management - Ongoing Improvement (OE)

- A dedicated road crew, extra water cart, 2 x CAT998 clean-up machines
- Trials of various road binding agents
- Otraco fitter coverage 24 hours
- Incident report raised for each tyre loss
- Independent tyre and road maintenance report all mines
- Tyre awareness sessions each shift quarterly
- Tyre awareness posters updated monthly
- Yearly goals, performance reviews include personal responsibilities on tyre management
Bene Plant Throughput YTD FY05 (Dry Tonnes Basis)

- **Feed (58.91% Fe)**: 7.2Mdt
- **Product (65.03% Fe)**: 5.5Mdt
- **Waste (34.83% Fe)**: 1.0Mdt
- **Tailings (44.04% Fe)**: 0.7Mdt
New Resource Development - Orebody 18

October 2004  -  Board approval as part of RGP2
February 2005 -  Construction commenced
February 2005 -  BGC Contracting awarded pre-strip contract
March 2005    -  Pre-strip contract commenced and comprises
                6.1 million tonnes
•  Initial plant capacity will be 8mtpa increasing to 12mtpa
•  Plant construction and pre-stripping progressing to schedule
Stacker & Reclaimer at Area C
Accelerated Area C Ramp-up

Ore Production Increased Three Fold vs Feasibility in 22 months.

18 day shut for crusher upgrade RGP1

Rail constrained productivity

Ore Production Mt
Area C Mine – Total Mining Movement

Mining Volume (MBCM)

Mining Volume Increased Four Fold vs Contract during August 03 – May 05.

Original Fleet:
- 3 x 785
- 1 x EX1900

+1 x 789
+RH120
+3 x 789
+2 x 789
+RH170
+WL994
+3 x 789

Millions of Tonne

August 03 to March 05

Actual
Contract
Goldsworthy Mining Leases
### Significant WAIO Resource Base

<table>
<thead>
<tr>
<th>Ore Type</th>
<th>Resources (Mwt)</th>
<th>Reserves (Mwt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brockman low P</td>
<td>1,410</td>
<td>900</td>
</tr>
<tr>
<td>Brockman high P</td>
<td>1,862</td>
<td>199</td>
</tr>
<tr>
<td>Detrital (lump product)</td>
<td>74</td>
<td>-</td>
</tr>
<tr>
<td>Marra Mamba</td>
<td>2,139</td>
<td>565</td>
</tr>
<tr>
<td>Pisolite</td>
<td>1,334</td>
<td>901</td>
</tr>
<tr>
<td>Yarrie</td>
<td>234</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7,053</strong></td>
<td><strong>2,578</strong></td>
</tr>
</tbody>
</table>

- Mineral Resources / Ore Reserves at 30 June 2004
Resource Evaluation Group

Jimblebar – W3
## Resource Evaluation Group

### Significant Drilling Program

<table>
<thead>
<tr>
<th></th>
<th>Expenditure A$M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>310km</td>
</tr>
<tr>
<td>Reviewing</td>
<td>450km</td>
</tr>
</tbody>
</table>
Resource Evaluation Group – Strong Capability

- Workforce – 60% growth in drilling group with 40 geologists operating 16 shifts of drilling per day RC & DDH.
- 5 years of drilling planned at Yandi, Yarrie, Area C and Newman
- New drilling technology is being developed to improve geotechnical wall stability models at Mt Whaleback
- Large scale drilling programs aimed at improving reserve knowledge at
  - Mt Whaleback & surrounding satellite mines
  - Area C mine corridor
  - Yandi mine corridor
## CAPABILITY
### BHP Billiton Iron Ore – Mining Engineers and Geologists

<table>
<thead>
<tr>
<th></th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
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</thead>
<tbody>
<tr>
<td><strong>Mining Engineers</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whaleback</td>
<td>18</td>
<td>19</td>
<td>22</td>
</tr>
<tr>
<td>Contract Mines</td>
<td>6</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td><strong>Geologists</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whaleback</td>
<td>20</td>
<td>26</td>
<td>46</td>
</tr>
<tr>
<td>Contract Mines</td>
<td>12</td>
<td>14</td>
<td>24</td>
</tr>
</tbody>
</table>

NB All data based on 30 June – end of financial year.
Mining Operations Improvement Initiatives
Successful Business Improvement

Delivering significant financial benefits

• Total projects completed year to March 05 = 26
• Business benefit to March 05 = $29.6m

Embedding the Six Sigma Philosophy

• Total OE coaches trained = 58
• Total OE coaches in training = 6
• Total Accredited OE coaches = 23
• Total active OE coaches = 19
  → 7 Mine
  → 9 Port & Rail
  → 3 Perth
Status of Business Improvement in Mining Group

Number of Improvement Projects

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEJ02</td>
<td>40</td>
</tr>
<tr>
<td>YEJ03</td>
<td>40</td>
</tr>
<tr>
<td>YEJ04</td>
<td>80</td>
</tr>
<tr>
<td>YEJ05</td>
<td>40</td>
</tr>
</tbody>
</table>

Pie chart showing the distribution of improvement projects:
- Health and Safety
- Environment
- HSE&C Integration
- Community Relations
- People Management
- Cost
- Efficiency
- Planning
- Product Quality
- Tonnage and Growth
Multiple projects aimed at optimising the Car Dumper bottleneck to exceed 110MTPa.

- Jimblebar Load Times
- Reduce rake Loading times and Maximise Ore Car Capacity at Yandi 1 and 2
- Reduce rake Loading times and Maximise Ore Car Capacity at Mining Area
- Yandi Lump Mine to Market Strategy
Navigator – Business Planning Alignment & Involvement

- Strengthening business planning through greater input from all work groups and OE processes
- 69 sessions across all workgroups
- 737 participants
- 5733 comments collected and analysed
Navigator - Results

- **Efficiency**
  - System / Processes
  - Maintenance / Equipment Availability

- **People Management**
  - Skills Development
  - HR Administration Issues

- **Health & Safety**
  - Safety Management
  - Education / Promotion
  - Risk Reduction

- **Operating Excellence projects are under way with workgroups**
Mt. Whaleback Ultimate Pit Design

- Core ore source for the next 20+ years
- Controls chemical and physical properties of the blend

- Pit Control Office 690 mRl
- Lowest Point 190 mRl
- Total Depth ≈ 500 m
- Length 5 kms
- Width 2 kms
Beneficiation Plant

- Drum Capacity Increased – 340 to 550 tph/drum, 3.2 to 3.5 SG – May 1999
- Cyclone Circuit Upgrade – June 1999
- Replaced Cones Plant with Spiral Plant – March 2000
- Modified Chutes for Wet Feed Handling – November 2000
- Waste System Upgrade – higher tonnage/reduce spillage – June 2001
- Tailings System Upgrade – October 2001
- 2004 Operation and Maintenance Interface Improvement Strategies – Bene and High Grade

YEJ 1998 : 4.8Mwt
YEJ 2001 : 5.8Mwt
YEJ 2002 : 7.1Mwt
YEJ 2003 : 7.8Mwt
YEJ 2004 : 7.7Mwt
Orebody 25 & 23

**Satellite Orebodies Offer Blending Flexibility**

**Orebody 25**
- Flexible contractor mining operation
- Operational flexibility – crushing/screening options

**Orebody 23**
- Advanced pit development
- Dewatering system being installed

**Orebody 18**
- Commenced pre-strip
Jimblebar – Wheelarra 4 Pit

- Flexible contractor mining operation
- Ore handling plant capacity 8Mtpa
- Ore reserves in excess of 100Mt
- All ore reserves above water table
- Low Phosphorus ore reserves
Area C – Moisture Control Program

Bulk Ore Conditioning Sprays used to increase moisture and reduce overall dust levels.

Overall moisture conditioning levels of 3% for fines and 4% lump ores

Additional moisture controls are via train loadout, rail and port.
Competent Person Statement

The information in this presentation that relates to Mineral Resources and Ore Reserves is based on information compiled by R. Pasyar (MAusIMM) and P. Schultz (MAusIMM) who are employees of BHP Billiton.

R Pasyar and P Shultz have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as a Competent Person as defined in the 1999 Edition of the "Australasian Code for Reporting of Mineral Resources and Ore Reserves". R Pasyar and P Shultz consent to the inclusion in the presentation of the matters based on their information in the form and context in which it appears.