

## NEWS RELEASE

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### SAMARCO UPDATE

Today, a Panel (**Panel**) of four geotechnical specialists published its findings into the immediate causes of the failure of the Fundão tailings dam at the iron ore operations of Samarco Mineração S.A (**Samarco**) in Minas Gerais, Brazil, on 5 November 2015.

Vale S.A. (**Vale**), BHP Billiton Brasil LTDA (**BHP Billiton Brasil**) and Samarco jointly commissioned Cleary Gottlieb Steen & Hamilton LLP (**Cleary Gottlieb**) to investigate the immediate cause of the failure. To assist with the investigation, Cleary Gottlieb retained the Panel to advise on the technical aspects of the failure and to conduct testing and analysis.

Dean Dalla Valle, BHP Billiton's Chief Commercial Officer, said the dam failure had a devastating impact.

"In November 2015, BHP Billiton committed to making the findings of this investigation public, and we are determined to learn from this tragedy" Mr Dalla Valle said.

"This important technical study will improve our understanding of what happened at Samarco. We have shared these findings so that the sector can learn from the dam failure and develop and implement further standards that can help prevent a similar event like this happening again."

Mr Dalla Valle said, separate to the external investigation, BHP Billiton had also conducted its own reviews of other significant dams at its operations and of its non-operated minerals joint venture arrangements.

"In the wake of this event, we have separately undertaken a comprehensive review of our significant dams, which has confirmed that those dams are stable. We will take a number of actions to further enhance risk management at these facilities."

"We have looked comprehensively at tailings dam management and benchmarked to global leading practice. We have assessed our portfolio of dams against these global standards and are implementing actions to enhance the management of our dams."

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<sup>1</sup> This release was made outside the hours of operation of the ASX market announcement office.

“We also conducted a review into our non-operated minerals joint venture arrangements and have identified a number of opportunities for improvement. This is consistent with our commitment to continuously improve risk management and our determination to learn from, and share the lessons from, this tragedy.”

### Panel findings

The Panel’s findings released today are the outcome of a 10 month investigation and scientific analysis involving experienced geotechnical engineers and seismologists, led by Dr Norbert Morgenstern, a University Professor of Civil Engineering and an authority in the field of Geotechnical Engineering.

A full overview of the Panel’s findings, explanatory materials, detailed modeling, input data, a video and technical diagrams can be found at: [Fundaoinvestigation.com](http://Fundaoinvestigation.com)

### BHP Billiton Dam Review

BHP Billiton led an in-depth review of significant dams in its portfolio, drawing on both internal and external expertise to confirm the structural integrity of these facilities. This included a detailed review of dam design, construction and operations.

BHP Billiton has decided to create a centralised dam management function that will bring additional specialist expertise in-house at BHP Billiton. In addition, we will assess technology options to further enhance dam management across the portfolio.

BHP Billiton has also assessed guidelines across the globe to determine leading practice in dam management. As an immediate step, BHP Billiton will apply the process for dam safety reviews developed by the Canadian Dam Association at all of our minerals assets. This process is regarded as the most rigorous in the industry.

Separately, BHP Billiton has contributed to a review initiated by the International Council on Mining and Metals (**ICMM**) into tailings management that will provide the industry with guidance to better manage the risks associated with tailings facilities.

BHP Billiton will continue to work with the ICMM as they develop their framework and we will share with the ICMM the Panel’s findings and our lessons learned.

### BHP Billiton Non-Operated Minerals Joint Venture Review

BHP Billiton is also reviewing the non-operated minerals joint ventures in our portfolio to identify any opportunities for enhancement, and to assess the optimal structure and approach.

As an interim step, BHP Billiton will centralise management of all major non-operated minerals joint ventures in the Minerals Americas operating group.

In addition, we will enhance the application of risk management processes and establish a new BHP Billiton global standard for non-operated minerals joint ventures.

BHP Billiton and Vale are also continuing to review operating arrangements at the Samarco joint venture.

BHP Billiton remains focused on continuously improving safety and risk management in all of our operations, and we will continue to look for opportunities to make further improvements as we implement these actions.

Further information on BHP Billiton can be found at: **[bhpbilliton.com](http://bhpbilliton.com)**

## Media Relations

### Australia and Asia

Eleanor Colonico  
Tel: +61 3 9609 2360 Mobile +61 407 064 748  
Email: [Eleanor.Colonico@bhpbilliton.com](mailto:Eleanor.Colonico@bhpbilliton.com)

Paul Hitchins  
Tel: +61 3 9609 2592 Mobile +61 419 315 001  
Email: [Paul.Hitchins@bhpbilliton.com](mailto:Paul.Hitchins@bhpbilliton.com)

Fiona Hadley  
Tel: +61 3 9609 2211 Mobile +61 427 777 908  
Email: [Fiona.Hadley@bhpbilliton.com](mailto:Fiona.Hadley@bhpbilliton.com)

Amanda Saunders  
Tel: +61 3 9609 3985 Mobile +61 417 487 973  
Email: [Amanda.Saunders@bhpbilliton.com](mailto:Amanda.Saunders@bhpbilliton.com)

### United Kingdom and South Africa

Ruban Yogarajah  
Tel: +44 207 802 4033 Mobile +44 7827 082 022  
Email: [Ruban.Yogarajah@bhpbilliton.com](mailto:Ruban.Yogarajah@bhpbilliton.com)

### North America

Bronwyn Wilkinson  
Mobile: +1 604 340 8753  
Email: [Bronwyn.Wilkinson@bhpbilliton.com](mailto:Bronwyn.Wilkinson@bhpbilliton.com)

BHP Billiton Limited ABN 49 004 028 077  
Registered in Australia  
Registered Office: Level 18, 171 Collins Street  
Melbourne Victoria 3000 Australia  
Tel +61 1300 55 4757 Fax +61 3 9609 3015

## Investor Relations

### Australia and Asia

Tara Dines  
Tel: +61 3 9609 2222 Mobile: +61 499 249 005  
Email: [Tara.Dines@bhpbilliton.com](mailto:Tara.Dines@bhpbilliton.com)

Andrew Gunn  
Tel: +61 3 9609 3575 Mobile: +61 402 087 354  
Email: [Andrew.Gunn@bhpbilliton.com](mailto:Andrew.Gunn@bhpbilliton.com)

### United Kingdom and South Africa

Rob Clifford  
Tel: +44 20 7802 4131 Mobile: +44 7788 308 844  
Email: [Rob.Clifford@bhpbilliton.com](mailto:Rob.Clifford@bhpbilliton.com)

Elisa Morniroli  
Tel: +44 20 7802 7611 Mobile: +44 7825 926 646  
Email: [Elisa.Morniroli@bhpbilliton.com](mailto:Elisa.Morniroli@bhpbilliton.com)

### Americas

James Wear  
Tel: +1 212 310 1421 Mobile: +1 347 882 3011  
Email: [James.Wear@bhpbilliton.com](mailto:James.Wear@bhpbilliton.com)

BHP Billiton Plc Registration number 3196209  
Registered in England and Wales  
Registered Office: Neathouse Place  
London SW1V 1LH United Kingdom  
Tel +44 20 7802 4000 Fax +44 20 7802 4111

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