

Mine Water Reclamation and Re-use Schemes – Obtaining Buy-In from Key Stakeholders

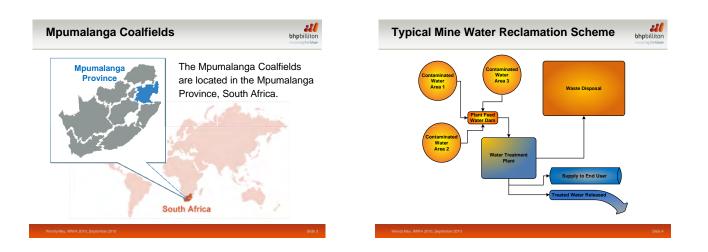
Wendy Mey IMWA 2010 5-9 September 2010 bhpbilliton resourcing the future

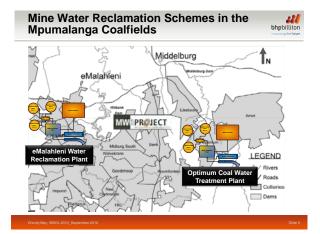
## **Presentation Overview**

- Introduction
- Mine Water Reclamation in the Mpumalanga Coal Fields
- Mine Water Reclamation Project Endorsements and Approvals

**bhp**billiton

- Funding Approval
- Licence and Permitting Approvals
- Closing Remarks
- Acknowledgements







## **Funding Approval**



bhpbillitor

**bhp**billitor

- The full impact of mining on the water resource was not understood or appreciated when mining started in the Mpumalanga Coalfields over a century ago.
- Despite the implementation of water management measures in terms of eliminating the impact, minimising the impact and re-use of impacted water, collieries in the Mpumalanga Coalfields are typically faced with a net surplus of water requiring treatment prior to discharge and/or additional reuse.
- Mine Water Reclamation and Re-Use Projects require substantial capital investment followed by operating and maintenance costs that extend into perpetuity.

#### Obtaining Buy-In for Funding

 The project must be aligned with the goals and objectives and business needs of the mining company;

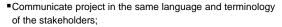
bhpbillit

Widen the base of support for the project within the organisation;

#### At all levels entrench

- An understanding of the water management problem and why the facility is required;
- Acceptance of the establishment of the mine water reclamation and re-use scheme as the optimal solution to the problem;
- Enthusiasm to see the project implemented.

## Obtaining Buy-In for Funding



The project must not result in the creation of waste disposal sites that increase the risk of pollution to the environment and/or the closure liability of the mine.



# Licensing and Permitting Approvals

- In South Africa, the water, environment and mining sectors have relatively new enabling legislation and associated regulations.
- Mine Water Reclamation and Re-use Projects pose a challenge to the integration of the regulatory approval processes.

	Record Distances of A	And and a state		th -	The other
	discount for	Tape March	Annual State	and the second	
	The state	-			
	-	and a state			
	and the second	-			
	-				
	-	-			-
	The state of the s				
		-	-		
			- 1-	11	-
			Statement & Statement	Time	-
	-	-	-	1	
			Y	-	-
Lr	-	1			
	Taken 1		James La		
-	al of Survey of Survey of Street, or other	1 21/22		-	
	and Specificant	1 22		Surface and Party of Street or other	
	and have been been as a second	Auto S All And			

# Obtaining Buy-In for Regulatory Approval

- There must be alignment between the project objectives and the regional and national strategies in place by the respective government departments;
- Mobilise and engage the different regulatory authorities in an integrated and coherent process;
- Ensure broad stakeholder involvement;
- Underpin the process with public participation and consultation with interested parties to secure public acceptance of the project.

