

**AGENDA FOR THE GOVERNMENT TASK TEAM MEETING
ON MINE CLOSURE AND WATER MANAGEMENT**

Date: Thursday, 1st December 2016
Time: 09:00
Venue: Council for Geoscience
 280 Pretoria Road
 Silverton,

	ITEM	ACTION
1.	Opening and welcome	Chairperson: Mr Max Madubane
2.	Apologies	All
3.	Approval of the agenda	All
4.	Approval of the minutes for the meeting held on the 20 th October 2016	All
5.	Matters arising from the meeting held on the 20 th October 2016	All
6.	Presentation	Ezulwini Gold mine
7.	Presentation	Anglo Gold Ashante mine
8.	General	
	8.1	
	8.2	
	8.3	
9.	Closure	Chairperson: Mr Max Madubane
10.	Date of the next meeting (08 th December 2016)	Chairperson: Mr Max Madubane

Meeting Notes:

Title of Meeting	Governmental Task Team on Mine Closure		
Regarding	Ezulwini Partial Closure Presentation		
Date	01/12/2016	Time	09:00
Venue	Council for Geoscience, Silverton		

Present from Sibanye Gold:

Johan Wagner	WR	SGL Group Water Consultant
Hennie Pretorius	WO	SGL Water Compliance
Lauren Dell	PH	SGL Water Management
Greg Heath	FM	SGL Ground stability
Frik du Preez	FdP	SGL VP Mining Cooke
Kate Tshukudu	GA	SGL Manager Health and Safety
Nico Gewer	LD	SGL Environment

Representatives from Government:

Max Madubane	Chairman GTT
Marius Keet	DWS Mine Water Division
Bashan Govender	DWS Mine Water Division
Henk Coetzee	CGS
Joshua Ellis	AngloGold Ashanti
DMR Headoffice	DMR
Rand West City Local Municipality	Municipality

Notes for the record:

1. **Presentation:** JW presented the Ezulwini situation and the plan for the closure of the underground workings, along with the authorisation process underway.
2. **Questions:**
 - Henk Coetzee (CGS): Will there be a peer review on the studies and modelling?
 - There will be a peer review by independent experts to confirm findings. Input from the GTT members is welcomed.
 - Henk Coetzee (CGS): There was concern previously over the boundary pillar thickness. Is this being looked at? There is a previous report detailing this.
 - This is included in the geotechnical investigation, both by Sibanye Gold and SRK, the appointed consultants.
 - Max Madubane: Concern from farmers regarding less water flowing downstream.
 - Yes, agreed.
 - Max Madubane: With regards to South Deep, it is their responsibility to ensure safety and compile Emergency Response Plans for their mine. Sibanye must ensure that their studies cover all aspects that may be raised.
 - Noted
 - Max Madubane: The various government applications that will be lodged must be supported by sufficient technical reports, so that officials have the knowledge available to make decisions.
 - Noted. The reports will be supplied as soon as possible, with the Basic Assessment Report and Closure Plan, along with the Water Use Licence Application.
 - Marius Keet: Would like to better understand why the mine is closing?

- JW: Losses have been made for previous 3 years of operation by Sibanye.
- FdP: To provide some context, Ezulwini has not been profitable for the past 16 years. For the past two years, losses have been approximately R350 million per year. The other mining units therefore have to pick up this cost. Ezulwini has effectively been mining the shaft pillar and mining Uranium. A seismic event of 3.1 sterilised a large portion of the reef. Sibanye cannot continue to lose money in this manner, as it impacts on the rest of the company and threatens jobs at Cooke 1, 2 and 3.
- Marius Keet: Is this the final closure of Ezulwini? Government does not want to accept closure and then it is re-opened again. Is that why "partial closure"?
 - JW: No, partial closure refers to underground workings only. The mine has been proven to not be profitable despite all management interventions put in place.
- Marius Keet: Understand that the mines will close in sequencing and this is the first. Will flooding of the Gembokfontein West compartment not flow laterally into Cooke 3 and other mines? Will the impacted water from the mine not impact the aquifer and the Wonderfonteinspruit?
 - JW: The compartments east of the R28 are not dewatered. The water from the eye will flow into the 1m pipeline. Cooke 1, 2, 3 are not dewatered compartment so will not impact pumping there. The quality at the eye is predicted to be good quality and will benefit the Wonderfonteinspruit quality. Additionally, the water in the shaft area is static and will not be exposed to oxygen or movement, therefore there will be little backmixing.
- Henk Coetzee: CGS uses assumption that all models are wrong. Will the model be calibrated once events start happening?
 - JW: Agree fully, monitoring required is detailed in the reports, new boreholes are being drilled to enable this. The model will be calibrated with monitoring results.
- Rand West Municipality: Concern about the capacity of the 1m pipeline? The pipeline is apparently silted up and reducing the capacity. The studies must therefore look at the impact on the Wonderfonteinspruit and the consequences of unintended rewatering of other compartments, as the Wonderfonteinspruit is riddled with sinkholes. The municipality wants to be viewed as a partner, as they will be the lasting role-player in the region and their records should show the decisions and reasoning, as well as specialist reports.
- Max Madubane: The municipality must be involved and will receive copies of the applications. Their concerns must be addressed in specialist reports.
 - JW: The municipality's concerns have been brought into the specialists reports and all concerns raised by the GTT will likewise be addressed. The 1m pipeline was designed to convey water over the Venters post compartment. Kloof 10 shaft pumps all water that ingresses from the upper Wonderfonteinspruit area. The 1m pipeline was designed for 120 MLD, currently the capacity is at 100 MLD, most of which is taken up by sewage effluent from upstream municipal works. The West Rand Tailings Retreatment Project will also take water out of this system and lessen the load on the pipeline.
- Max Madubane: The Carletonville Municipality should be included too.
- DWS: The water quality predicted to decant is assumed based on models. Are there contingency plans in place if the quality is not as predicted?
 - JW: The existing boreholes that are monitored agree with the predicted model, as the aquifer quality is as such. However, should the

model not be accurate, the water can be treated in a water treatment plant to drinking water standards.