

<b>MINUTES OF THE GROOTDRAAI DAM FORUM MEETING HELD ON 26 MAY 2004</b>
--

ATTENDANCE LIST	
-----------------	--

Stephan Raal R. Munnik	Francois Koegelenberg Clifford Dladla
Cebo Mhlongo	Beverley Monametsi
EuniceTshikomba Tankiso Kabi	Clarence Russell
M. Lintnaar- Strauss	
Karen Chetty	
Ken Van Rooyen	
Koos Smit	
E M Daniel	
M Coetzer	
Lizelle Koeglenberg	

	DISCUSSIONS	ACTION
1.	<b>WELCOME AND INTRODUCTION</b> R. Munnik welcomed everybody to the Forum meeting and asked the attendees to introduce themselves. R Munnik thanked DACE for use of the facility. Apologies were received from D Hanekom and Sindiswa Gadimi.	
2.	<b>MINUTES OF THE PREVIOUS MEETING</b> The following correction were made to the minutes of the previous minutes: Page 1, Attendance list: F Koegelenberg must be added to the attendance list.	
3.	<b>MATTERS ARISING FROM THE PREVIOUS MINUTES</b> None	
4.	<b>PRESENTATION AND PROGRESS REPORTS</b> Ken Van Rooyen from Digby Wells gave a presentation on the rehabilitation concepts of the Human Spruit at Delta Colliery.	

4.1	<p>Mashala resources bought the plant and the property is still under liquidation. Mashala, the company currently working on the property, approached Digby Wells and Associates. Panumbra mining company wants to mine on portions 84, 24, 20 and 89 of the farm Witbank 262 IT. Panumbra want to mine 60-180m deep. Deep mining could cause a little seepage and decant is possible from the box cut. The area is highly contaminated. Mashala will try to rehabilitate the whole area. The area southwest is being prepared for mining. Mr. Van Rooyen showed an aerial photograph of the area. Coal will be supplied from Delta Mine to Camden Power Station if successfully negotiated. Water is needed to wash the coal. Delta Mine has a low rate of seepage through the discard dump. Pollution control dam is silted up and is discharged into the Human Spruit. Seepage through the pollution control dam took place and this caused the flocculation of clays which is a big problem area. There is a compliance point up stream of the railway line. All coal is processed and rehabilitation will be done with money that is set aside in a separate fund. Digby Wells gave an estimation of how much it would cost to remediate the site. He explained the types of passive treatment for acid mine drainage. The passive treatment being investigated involves the planting of reeds and grass that will be harvested. Rehabilitation has managed to address the pH problem by taking it from 2 –5. Considering the sealing of the basin/ inlet and outlet structure. Mashala has dug a trench to cut off seepage and get the whole area free draining. High rate of free draining is needed for the discard dump. An option being considered is to build a concrete sluice canal. Typha (plant species) that is proposed does not take up salts. The technology comes from the United Kingdom where shoots are filled aggregate. Can grow Typha and fragments in hydroponics in hot houses. The company will look at local markets for the cut of reeds. Off cuts of reeds will be used in the boilers to generate heat. The drying mechanism for reeds will also be investigated. A compartmentalised system is being investigated to increase plant growth, however, at this stage it is not known if this is a viable option. R 200 000 was set aside to do the investigation. A Section 21 company will be established at a total cost of R 5 million. Another project is to look at a sustainable village. Cebo commended Digby Wells for the work they are doing and for the efforts to find alternative solutions to the problem at hand. Time frames for the project was asked to which Ken replied that they are looking at the end of June for implementation. It is anticipated that it will be a three year program. Cebo asked if the intention was to mine the Smit reserve as well. Mashala was encouraged to submit the data to DWAF so that it can go on the WMS program. Riana asked how the plant can be operated if there was no closure. The mining authority was still owned by Delta mine and the wash plant was currently owned by Mashala. Ken answered that Penumbra mine submitted and EMP to DME at the end of April. Portion 84 belongs to a deceased estate which has authorisation from DME to mine, but the area is not mined. The water available at the washing plant is used by Mashala. Tankiso asked about the final use of the area to which Ken replied that they will be farming with Typha grass. Lizelle enquired how big an area would be needed to reduce the salts. Ken replied that a coal mine in the UK used only a small single sluice box that was 3x 10m.</p>	Ken Van Rooyen- Digby Wells and Associates.
5.	<b>SHORT PROGRESS REPORTS</b>	
5.1	<p><b>WATER QUALITY IN HUMAN SPRUIT</b>  Melissa discussed the water quality of three DWAF monitoring points in the Human Spruit. The water samples were taken over a period of 5 months. Samples were taken up stream of Loubert mine, down stream of Loubert mine and down stream of Delta mine. The electric conductivity, total dissolved solids and sulphate concentrations were discussed, the sample values being highest at the monitoring point down stream of Delta mine.  Ken replied that they had a meeting with DME. Once the area is disturbed,</p>	M Lintnaar- Strauss- DWAF

	these results can be expected and the values will stay the same for the next year or two.	
<b>5.2</b>	<b>WATER QUALITY STATUS REPORT</b> Cebo gave feedback on the water quality of the Grootdraai Dam catchment for the period January - March 2004 as measured by Rand Water.	Cebo Mhlongo – Rand Water
<b>5.3</b>	<b>CAMDEN POWER STATION RECOMMISSIONING</b> Irma gave an update on the activities at Camden Power Station regarding the recommissioning of the power station.	Irma Dedekind - Eskom
<b>5.4</b>	<b>MINING RELATED ISSUES</b> Clarence gave an update of what is happening at Golfview and Thutsi Mines <b>and Uitgevalle??</b>	Dr. Clarence Russell
<b>5.5</b>	<p><b>WATER QUALITY ISSUES IN THE CATCHMENT:</b></p> <p><b>UPDATED MONITORING PROGRAMME</b> Melissa indicated that the DWAF water monitoring program was updated to 30 points including the 3 monitoring points for the Loubert mine rehabilitation of the Human Spruit. The level 1 points/ strategic points on the Vaal River have been updated to 5 points, level 2 points/ stream flowing into the Vaal River have been updated to 5 points, level 3 points/ secondary rivers are 14 points and level 4 points the sewerage works for Ermelo, Bethal, Breyten and Amersfoort are 4 points.</p> <p><b>POLLUTION OF THE DAMASCUS DAM</b> Mr. Prinsloo complained about the dam on his farm being polluted. The complaint was investigated. The results showed that the water was not fit for domestic use, but it could be used for livestock watering.</p> <p><b>LIASON WITH LOCAL AUTHORITIES</b> The Department had a meeting with Govan Mbeki Municipality regarding Bethal sewage works and landfill site. At the sewage works, there is no control over the works and DWAF cannot prosecute the local authority. The managers of the sewage works are stationed in Secunda, and the communication between the different parties is almost non-existent. The operators for the sewage works are not trained for the job. The landfill site is not up to standard.</p> <p>Msugiligwa Municipality: Upgrading of the sewage works is taking place at Ermelo. The project is currently out on tender and the municipality is looking for a contractor. The landfill site is not up to standard.</p> <p><b>HEYSHOPE DAM WATER QUALITY INVESTIGATION</b> Officers from Gauteng Region took water samples around the Heyshope Dam near Piet Retief. Activities around the dam include forestry, mining (Maquasa mine) and an informal settlement (Driefontein) of 50 000 people. At this stage the water quality looked good.</p> <p><b>WATER USE LICENSE APPLICATIONS</b> <u>New Denmark Colliery</u> for the disposal of brine in an underground compartment- application is with DWAF Head Office for approval. <u>Camden Power Station</u> - directorate is awaiting the reserve determination. <u>Umlabu Colliery</u>- reserve has been determined but the Directorate is awaiting information from the mine.</p>	Melissa Lintnaar- Strauss
<b>5.7</b>	<b>CMA ESTABLISHMENT PROCESS</b> Riana reported that there has been no further progress with regard to the establishment of the CMA. The proposal is with the Regional Director for the Gauteng Region. No decision has been taken to continue the process.	Riana Munnik- DWAF
<b>6</b>	<b>GENERAL</b>	
<b>6.1</b>	<b>POLLUTION INCIDENTS:</b> none were reported	

6.2	<b>INTEGRATED WATER QUALITY MANAGEMENT VIDEO (20 min)</b> Riana showed a video made by the DWAF regarding integrated water quality management.	
7	<b>CLOSURE</b> Riana thanked everybody for attending the meeting. The meeting was closed.	
5.12		
6.1		
7.	<b>DATE FOR THE NEXT MEETING</b> The next forum will be held on the 26 May 2004 at 10:00 at the Nooitgedacht Agricultural Research Center.	
8.	<b>CLOSURE</b>  D. Hanekom thanked everyone for attending and presenting in the meeting and then closed the meeting	