

**MINUTES OF THE GROOTDRAAI DAM FORUM MEETING
HELD ON 26 MAY 2005**

ATTENDANCE LIST	
Stephan Raal (SR)	T M Molo (TM)
K Chetty (KC)	Sias Burger (SB)
M. Lintnaar- Strauss (M L-S)	E.M. Daniel (ED)
S Clark (SC)	Mike van der Walt (M vd W)
Avril Van Zyl (A V Z)	V Kasseepursad (VK)
S van der Linde (SvdL)	D Masoabi (DM)
J I Rademeyer (JR)	Juanita van der Berg (Jvd B)
S. Gidimi (S G)	Trinity Salagae (TS)
A Kapsosideris (A K)	L Shabangu (LS)
Musa	Neo Kgaye (NK)
Francois Koegelenberg (F K)	Andries Wilke (AW)
J van Eck (J v E)	MS Mporetji (MM)
K Khunwane (KK)	L Koegelenberg (LK)
T Thidza (TT)	SP Mdletsh (SM)
TH Mavuso (TM)	M S Lephoto (ML)
B Z Kutsu (B K)	TS Ndamase

	DISCUSSIONS	ACTION
1.	<p>WELCOME AND INTRODUCTION OF ATTENDEES AND APOLOGIES</p> <p>Technical Manager at Tutuka Mr. M. Pillay welcomed everyone to the forum meeting. Welcome also received from SR. Apologies were received from F. Fourie (Govan Mbeki Municipality), M. Ford (Mashala Resources) and Irma Dedekind (Camden).</p>	
2.	<p>MINUTES OF THE PREVIOUS MEETING</p> <ul style="list-style-type: none"> • Page 3 : EMPR Performance Assessment for Spitzkop is not done yet. • Tselentis rehabilitation project will go out on tender; Tselentis has applied for abstraction and storage license. • Minutes of meeting were accepted. 	
3.	<p>MATTERS ARISING FROM THE PREVIOUS MINUTES</p> <ul style="list-style-type: none"> • Point 4.1: DWAF has to apply pressure to Municipalities and prosecute if possible; • Chairperson will write a letter to the Minister of DWAF regarding the non-compliance of municipal sewage works and report back to the forum. • Point 5: Directive was issued to New Denmark for the disposal of brine in underground compartment. • Witpunt spruit: Results was shown at the forum. 	<p>Action: DWAF (RO)</p> <p>Action: Chairperson</p>

<p>4.</p>	<p>PRESENTATIONS : FOLLOW-UP STUDY - HEYSHOPE DAM</p> <ul style="list-style-type: none"> • M Lintnaar-Strauss gave presentation to the forum regarding the follow-up study that was done for the Heyshope Dam. • A more thorough investigation was done- 21 points monitored in total. • Points were monitored around the banks of the dam as well as on the dam itself. • Data showed deterioration in water quality, especially bacteriological data. • Also a deterioration in points in the vicinity of Maquasa mine. • Photo`s indicated decant from mine directly into the dam. • DWAF Dundee Regional Office is doing the sampling. <p>JR (Seef) reported back on Head Office project which includes a reconciliation study, water conversation management and an integrated water plan.JR will give presentation on projection demand at the next meeting.</p> <p>Request from the Forum to have a presentation on the Waste Charge Discharge System at next meeting.</p> <p>REPORT BACK FROM RAND WATER ON THE WATER QUALITY IN THE CATCHMENT</p> <ul style="list-style-type: none"> • KC discussed the results for the Rand Water sampling points from the period Jan 2005. • Data from the sewage works for Bethal and Ermelo, Tutukani and New Denmark were discussed. • Water quality (WQ) for Ermelo sewage works is getting worse. • WQ for Bethal sewage works was the worst but there is an improvement. • Discrepancies in the WQ data were discussed. 	<p>Action: DWAF (HO)</p> <p>Action: DWAF (RO)</p>
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REPORT BACK FROM STAKEHOLDERS IN GROOTDRAAI CATCHMENT

Tutuka Power Station: Tebogo Ndamase gave presentation; Explained the primary and secondary treatment processes; Results were shown from Nov-2004 to March 2005 (6 months); Results for NO₃ and SO₄ were poor; PO₄ and NO₃⁻ values were also discussed; results were poor due to the dissolved oxygen probe not working and only 1 aerator being in operation; Nitrates and phosphate removal could not take place, plant maintenance personnel were not available. Maintenance plant – standby spares are unavailable. Delays occurred to attend to defects, a shortage of staff occurred, no 24 hours shift was worked, and Alum and ferric salts were not available. For nitrates removal – Nitrification achieved and completed. Fine tune of O₂ probe is required for monitoring the activity of nutrients. Phosphate removal will be done with chemical precipitation with Alum and ferric salts. For plant maintenance Tutuka is looking at other options. Training of staff will be done. Tutuka will purchase a dissolved oxygen (DO) device, this will be a modern instrument with an electronic analyser.

- Camden Power Station: Lizelle Koegelenberg (LK), gave report back on power station. Camden started up at the end of June; Camden is currently in the commissioning phase; 1 unit is commercialized and commissioned. LK gave WQ data upstream of Witpunt spruit and data of the coal stockyard dam.
- Majuba Power Station: The Geelklip, Witbank and Palmiet spruits are sampled daily; No pollution is picked up in the streams, all data is within specifications.
- New Denmark Colliery: No representative present from New Denmark.
- Golfview Mine: Avril van Zyl gave feedback for Golfview mine. Indicated that the Douglas Dam, Brummerspruit and boreholes were and has been dry for the last year.
- Spitzkop and Tselentis: Sindiswa Gidimi gave feedback. Spitzkop is improving the maintenance and EMS systems. The rehabilitation designs for Lilliput East will be finished in July and for Lilliput west next year. Biomonitoring is done on site; On the Mooiplaats farm, the box cut stripping has commenced. An IWMP plan is being prepared. An update is being done on the water monitoring points. Also updating the ground water modeling. The license for the discard dump extension has been submitted. The annual I&AP's meeting will take place in July where all environmental related issues will be discussed.
- Delta/ Mashala Resources: Andries Wilke gave feedback on behalf of Mashala. Reworking of discard and tailings washing is taking place. Mashala is looking at the defunct mines and decants in the area. A WUL is being prepared. If Delta stopped production, acidic water quality will become a problem. Mashala is considering a passive treatment system and is looking at a system that will be working for 5 to 10 years. One of the options considered is a wetland pseudo system; considerations are the up keep and maintenance of such a system. Phase one: looks at the concept and phase two: the design. For the passive treatment, Mashala is looking at various grass species that could be used for thatching. Also looking at a sewage system in the informal settlement in the area where the sewage could be utilised. Catfish farming could be a viable community project. Phase two will deal with more details.
- Msukaligwa Municipality: not present to give feedback; The forum proposed that the Minister of DWA should be approached to put pressure on the MEC for Local Government for the municipality to attend the meeting.

6.	<ul style="list-style-type: none"> • <u>Govan Mbeki Municipality</u> : FF not present, so report could not be given. • <u>Msukaligwa Municipality</u>: No representative present. • <u>Seme Municipality</u> – At Amersfoort sewage works, the biofilter is not working at full capacity due to low flows. Another problem is that the chloride contact period is short and no contact exists. Seme municipality is in phase 1 of a project to implement sewer reticulation in Amersfoort. The treatment plant will be addressed in phase 3 of the project. Seme municipality was asked to submit water quality results to the Dept. <p>GENERAL</p> <p>6.1 <u>License application status</u>: following applications still outstanding: Camden water use license, and Spitzkop Colliery license.</p> <p>6.3. No <u>pollution incidences</u> were reported.</p>	<p>Action: Seme municipality</p> <p>Action: DWAF HO and RO</p>
7	<p>CLOSURE</p> <p>SR thanked everybody for attending the meeting. The meeting was closed.</p>	