

MAP FORUM MEETING

MORELETA / APIES / PIENAARS RIVER SUB-CATCHMENT

Date : 21 FEBRUARY 2023 (TUESDAY)

Time : 10:00 - 12:00

Venue : DWS TRAINING CENTRE, ROODEPLAAT

Chair: Ms. Erica Bergman

Scribe: Ms. Yola Geldenhuys



ITEM	ACTIVITY	DESCRIPTION	ACTION
1.	WELCOME	The chair Erica Bergman welcomed attendees and reported that there are some changes to the agenda.	
2.	ATTENDANCE AND APOLOGIES	An attendance register was circulated. The meeting was attended by: Erica Bergman, Yola Geldenhuys, C.J. Erasmus, T. Mashane, M. Dlamini, Mike Plisic, Sam Thobejane, Esmy Madumo, Fred Malleson, Marc Leroy, Tsheamo Mogale, Mpho Kaeli, Pule Makena, David Ntsowe, Grant van Wyk, Rudolf van den Berg, Petrus Venter, Mathilda Chiloane, Stephens Notoane, Hangwi Akinwekom, Kobus Fell, Selwyn Jackson, Mathabo Phoka, Stephen Moore, Rodney Genricks and Kerneels Esterhuyse. Apologies were received from Esmy Madumo, Peter Sutton, Gawie van Vuuren, Liane van der Westhuizen, Carol Martin, Cara Stokes, Stephen Heyl, Rachel Lupe.	
3.	PREVIOUS MINUTES		
4.	RATIFICATION OF AGENDA		
		Accepted without change. It was reported that not everyone received the minutes. Erica clarified that minutes are loaded under the calendar items, to simplify correspondence.	
5.	ITEMS FOR DISCUSSION		
5.1	FINANCIALS	The annual Tshwane budget is about R42 million. The operations, capital budget and expenditures were discussed. It is clear that the cash resources are insufficient to cover short-term commitments, which means that Tshwane is delaying capital projects until finances improves. 215 formal settlements are currently supplied by water tankers. This is non-revenue water. The Chief Financial Officer's contract has come to an end and was appointed on a month-to-month extension. This was not renewed. A very thorough audit was done in 2022 and a lot of historical issues had been picked up.	
5.2	RESIGNATION OF MAYOR	Mayor Randall Williams had resigned on 13 February. The mayoral committee meetings of 14 and 16 February were invalid and all reports and approvals at these meetings are null and void. The mayoral committee is no longer in place and new MMC will be appointed once the new mayor is appointed. Kumelo stated that we've had several meetings with different MEC's over the years. A change in management means that we start from scratch. He proposed that a structure be put in place to continue with the issues that were already on the table. It was agreed that the City be approached on the possibility of creating a standing committee to ensure continuity through political change. Karneels indicated that he was informed many years ago that there is provision for such a possibility in the Municipal	Kerneels

		Structures Act. He will investigate that and get a legal opinion. If there's a possibility, it can be developed. Darryl Johnston indicated that they are in process establishing an Energy and Security task team. Thereafter they propose to put a committee / Water Security Task Team together for water from within the different structures and departments. It is expected to comprise of Sub-committees to deal with different matters. Political support needs to be followed-up and necessary approvals must be obtained from Council and various departments.	COT
5.3	WASTEWATER TREATMENT	Cobus requested compliance figures at the next meeting for Baviaanspoort and Sunderland Ridge. The President's Office has given a national directive that all water works must be exempted from loadshedding. COT is preparing a detailed status plan to submit.	Stevens Notoane
5.3.1	Rooiwal WWTW	Kerneels Esterhuysen reported on the Apies and Pienaars Rivers. Progress has been made on the planning for the phase 2 80Ml extension. Feedback at next meeting. Phase 1 - The previous contractor abandoned the site. Legal action is taking place, but Council must follow due process. The contract for maintenance is ongoing. Preparation work is being done for alternative solutions. Kerneels reported they are meeting with funders and had positive feedback from the Development Bank of SA. 3 proposals were submitted for funding and are being assessed. Feasibility and success of funding need to be assessed. Lutske Newton reported that there is collaboration between City of Tshwane and City of Aarhus in Denmark. Their development fund is looking for non-commercial projects to invest in at Rooiwal. They are concerned about lending money to the city to fix a problem but is concerned about consistency with such political upheaval. They are of the impression that stronger action needs to be taken of what's coming into the system. They are also concerned about sustainable operations budget to maintain that investment. If the payback period is 5/10 years, they want the facilities to be managed by private contractors. Lutske reported that they are close to securing some money to do feasibility studies on hydro energy at some reservoirs, including outflow at Rooiwal. Non-regular water losses are currently at 36% - the Development Bank SA will consider assisting us if we can get this under control. We urgently need to get administrative certainty and consistency. Erica stated that Public Private Projects have been successfully used regarding public roads. The systems are in place. Erica can assist with developing funding methods to do upgrades at WWTW.	Kerneels COT
5.3.2	Baviaanspoort WWTW	Baviaanspoort is taking more inflow than what it's designed for. Loadshedding is causing issues. They had no power for 48 hours due to cable fault.	
5.3.3	Zeekoegat WWTW	Zeekoegat is currently without power due to a cable fault. The city is attending to this as a priority. Sludge cannot be processed due to faulty valve presses - purchase orders for these are in at R800,000 and they are waiting for delivery.	

5.4	SECURITY	<p>Vandalism is an ongoing thing countrywide. Vandalism is experienced in CoT at all the WWTWs.</p> <p>Klipgat - was particularly hard hit. Planning is to rebuild the plant by financial year end. Clearvu fencing, electric fence and cameras to implemented.</p> <p>Plant East of Bronkhorspruit - The structure remains but it must refurbished due to vandalism. Due end of April.</p> <p>Soshanguve - also vandalized.</p> <p>Garakuwa - The plant is now surrounded by the community and a lot that needs to be replaced.</p> <p>Baviaanspoort - Clearvu fencing, electric fence and cameras to implemented.</p> <p>Rooiwal - security Infrastructure of R70/R80 million to be implemented.</p> <p>Clearvu fencing, electric fence and cameras to implemented at all plants. This creates a big burden on available maintenance funding. Additional funding has been requested. Security is still dependent on someone to monitor. Security guards who have not been paid by service providers have refused to work.</p> <p>Success has been achieved in the private sector - they are using sensors and remote monitoring systems to monitor infrastructure. Vibration sensors pick up illegal movements and can be used to detect vandalism early on. A Penalty clause is often used in the private sector when security companies don't perform.</p> <p>Erica can assist to get this in place. There is already a precedent - The City indicated that Bronkhorstspuit private sector approached them with a sponsorship agreement and they installed cameras to assist. ___ to forward details to Erica.</p>	
5.5	COMPLIANCE	<ul style="list-style-type: none"> • Baviaanspoort (stand over) • Sunderland Ridge (stand over) <p>Erica reported on water quality at the Midstream Pilot Plant. The plans services 200 houses and cost R2.5 million. It is working very well and discharge quality is close to or at general limits and released into the river. Kerneels raised objections against the water quality. Erica stated that this may not be the answer for Rooiwal, but perfect for smaller municipalities, rural areas, schools in rural areas. The sludge processes can be used in conjunction with activated sludge processes to lessen the burden on treatment works.</p> <p>Mark Leroy discussed the set-up cost and enquired about the long-term maintenance costs and requirements. Erica stated that it was designed to be cleaned in 15 years. Maintenance costs are much lower compared to traditional WWTWs.</p> <p>2 Blowers supply oxygen to the system and is the only thing worth stealing. This plant is not affected by loadshedding as power is supplied with solar panels. The remainder of the plant consists of plastic pipes and aggregate. It was agreed that this is a very good answer for high theft areas.</p>	Stephens Notoane
5.6	MEMORANDUM OF UNDER- STANDING	<p>Kerneels reported that discussions are being held to get this in place. It must be processed by another department in the Municipality and is still in process.</p>	David Ntsowe
5.7	INDUSTRIAL EFFLUENT	<p>Anoesjka Masilela presented on the Edendalespruit and Pienaars River Water Quality Monitoring.</p> <p>200 points are being monitored within Tshwane. Roodeplaas Dam is receiving inflow from 3 rivers, namely Edendalespruit,</p>	

	POLLUTION CONTROL	<p>Pienaars River and Moreletaspruit (Hartebeespruit). Po4, NH3 and Faecal Coliform are used as pollution indicators for pollution from sewer and animal feeding lots. COD confirms presence of organic matter of pollution in water resources. The Correctional Services and WWTW are major contributors to pollution. Rain was high in December, so pollution indicators are much higher in this time.</p> <p>How much faecal coliform should there be in our rivers and dams? Kerneels indicated that the supply of chlorine is currently a problem, with a limit of chlorine that is available in the water industry. One must sometimes prioritize and drinking water always get priority over effluent treatment.</p> <p>What impact does the chemical oxygen demand have on the environment? This is the amount of oxygen required to break down organic matter. This impacts dissolved oxygen levels in the water and and affect ecosystems in a negative way. High oxygen demand use up available oxygen in the system. Organisms rely on the oxygen and this is often the cause of fish mortality.</p> <p>Edendalespruit flows through the informal settlements near Memelodi. Sewer overflow is caused by blocked manholes. Pienaars River upstream between Bavianspoort WWTW and Roodeplaat dam has experienced severe pollution based on historic data. They have not experienced any prolonged overflows into the river recently. Bronkhorstpruit Catchment stormwater system drains into the Pienaars. Cattle kraals need to be monitored due to cow dung and urine contaminating stormwater. BCS is referred to CoT Agricultural section for assistance. Mechanical breakdown of pumps at pumpstation is causing problems. It was requested that DWS intervene due to pollution in water resource. This was referred to GDARD.</p> <p>Samples taken downstream of Roodeplaat dam in Pienaars River show a decrease in pollution compared to inflow. High E.coli in the dam is a result of deposited sludge within the dam being agitated during rain months. Washing in the river further upstream is contributing to pollution. Informal settlements also have huge impacts on pollution in rivers where there is no formalized infrastructure. Anoesjka indicated that people connect illegally to manholes. This causes problems with infrastructure, blockages and overflows.</p> <p>It was agreed that it is important to share information to highlight problems, causes and effects. It was requested that the Department of Pollution Control present to the maintenance teams so that they understand the importance of their work and help to motivate them. Human Settlement needs to get involved. It was requested that feedback be given on this in April.</p>	<p>COT GDARD</p> <p>Anoesjka Masilela / Matilda Chiloane</p>
5.8	REHABILITATION PLANS	<p>It was requested that Council appoint someone at Council to speak to the Forum on current rehabilitation plans. Erica to escalate.</p> <p>Not everyone knows and understands what happens to water once it enters the stormwater or sewer systems. We need to have conversations at worker level to educate and explain what happens with sewerage and stormwater once it is no longer visible.</p> <p>The Forum to request feedback from DWS, the custodian of the dams to represent rehabilitation plans in June.</p> <p>The Forum to request feedback from Tshwane to represent their rehabilitation plans in April.</p>	<p>Erica</p> <p>DWS Kerneels</p>
5.9	GAUTENG RIVERS	<p>Mark Leroy of GDARD presented on Gauteng rivers. He indicated that river data weren't complete. They are in process of updating the system, including completing river lines, correcting the directions of flow where necessary, etc. They hope to use this as a tool to trace sources of pollution. They will be sharing the data freely.</p>	

5.10	LIMPOPO-OLIFANTS CMA	The business case for Limpopo Northwest Catchment Management Agency has been changed to Limpopo-Olifants CMA and include the larger subcatchment. An acting CEO will be appointed, and the process is moving. Esmý Madumo to give feedback on the process.	Esmý
6.	DATES OF MEETINGS	2023: 17 January 21 February , 18 April, 20 June, 15 August, 17 October Note: Next meeting to be held at De Zeekoegat Conference Facility, Plot 80, De Zeekoegat.	
7.	CLOSURE	Erica declared the meeting closed and thanked the members for their attendance and participation.	