



**water affairs**

Department:  
Water Affairs  
**REPUBLIC OF SOUTH AFRICA**

**aurecon**

## MINUTES OF MEETING

### Second Algoa Reconciliation Strategy Steering Committee Meeting

**Held on 26 September 2012**  
**At the offices of Aurecon, Port Elizabeth**

Item		Action																																																																														
1.	<p><b>WELCOME</b></p> <p>The chairman, Mr Peter van Niekerk welcomed everybody to the meeting with a special welcome to Ms Portia Makhanya. He also mentioned that it was unfortunate that neither Mr Barry Martin nor Mr Stan Groenwald could attend the meeting.</p>																																																																															
2.	<p><b>ATTENDANCE AND APOLOGIES</b></p> <p><b>Attendance</b></p> <table> <tr> <td>Mr Peter van Niekerk</td><td>DWA: IWRP</td><td>PvN</td></tr> <tr> <td>Mr Johan van Rooyen</td><td>DWA: NWRP</td><td>JvR</td></tr> <tr> <td>Ms Portia Makhanya</td><td>DWA:EC</td><td>PM</td></tr> <tr> <td>Ms Isa Thompson</td><td>DWA: NWRP (S)</td><td>IT</td></tr> <tr> <td>Mr Dewald Coetzee</td><td>DWA: NWRI: Southern Operations</td><td>DC</td></tr> <tr> <td>Ms Bolekwa Kama</td><td>DWA: CMA Manager</td><td>BK</td></tr> <tr> <td>Ms Siziwe Blie</td><td>DWA: EC</td><td>SB</td></tr> <tr> <td>Mr Paul du Plessis</td><td>NMBM</td><td>PduP</td></tr> <tr> <td>Mr D Balfour</td><td>ECPTA</td><td>DB</td></tr> <tr> <td>Mr Pierre Joubert</td><td>Gamtoos IB</td><td>PJ</td></tr> <tr> <td>Mr Kowie Joubert</td><td>Prov Dept Agriculture and Land Affairs</td><td>KJ</td></tr> <tr> <td>Ms Maura Andrew</td><td>Livinglands</td><td>MA</td></tr> <tr> <td>Mr Galelo Mbambisa</td><td>DWA: Water Sector Support</td><td>GM</td></tr> <tr> <td>Mr Andrew Lucas</td><td>DWA: Water Quality Management</td><td>AL</td></tr> <tr> <td>Mr Willie Olivier</td><td>Coega IDZ</td><td>WO</td></tr> <tr> <td>Dr DC Le Maitre</td><td>CSIR</td><td>DIM</td></tr> <tr> <td>Mr Nick Chapman</td><td>Nelson Mandela Bay Business Chamber</td><td>NC</td></tr> <tr> <td>Mr Dup van Reenen</td><td>AfriCoast Engineers SA</td><td>DvR</td></tr> <tr> <td>Mr Erik van der Berg</td><td>Aurecon</td><td>EvdB</td></tr> <tr> <td>Ms Reina Zastron</td><td>Aurecon</td><td>RZ</td></tr> </table> <p><b>Apologies</b></p> <table> <tr> <td>Mr Mbulelo Sogoni</td><td>Director General, Premier's Office</td><td></td></tr> <tr> <td>Mr Vuyu Madini</td><td>EC Prov Dept of Local Govt &amp; Traditional Affairs</td><td></td></tr> <tr> <td>Mr Piet Snyman</td><td>Cacadu DM</td><td></td></tr> <tr> <td>Dr Beason Mwaka</td><td>DWA: WRPS</td><td></td></tr> <tr> <td>Mr Jeff Govender</td><td>Dept Econ Dev and Env Affairs &amp; Tourism</td><td></td></tr> <tr> <td>Mr Graham Taylor</td><td>Coega IDZ</td><td></td></tr> </table>	Mr Peter van Niekerk	DWA: IWRP	PvN	Mr Johan van Rooyen	DWA: NWRP	JvR	Ms Portia Makhanya	DWA:EC	PM	Ms Isa Thompson	DWA: NWRP (S)	IT	Mr Dewald Coetzee	DWA: NWRI: Southern Operations	DC	Ms Bolekwa Kama	DWA: CMA Manager	BK	Ms Siziwe Blie	DWA: EC	SB	Mr Paul du Plessis	NMBM	PduP	Mr D Balfour	ECPTA	DB	Mr Pierre Joubert	Gamtoos IB	PJ	Mr Kowie Joubert	Prov Dept Agriculture and Land Affairs	KJ	Ms Maura Andrew	Livinglands	MA	Mr Galelo Mbambisa	DWA: Water Sector Support	GM	Mr Andrew Lucas	DWA: Water Quality Management	AL	Mr Willie Olivier	Coega IDZ	WO	Dr DC Le Maitre	CSIR	DIM	Mr Nick Chapman	Nelson Mandela Bay Business Chamber	NC	Mr Dup van Reenen	AfriCoast Engineers SA	DvR	Mr Erik van der Berg	Aurecon	EvdB	Ms Reina Zastron	Aurecon	RZ	Mr Mbulelo Sogoni	Director General, Premier's Office		Mr Vuyu Madini	EC Prov Dept of Local Govt & Traditional Affairs		Mr Piet Snyman	Cacadu DM		Dr Beason Mwaka	DWA: WRPS		Mr Jeff Govender	Dept Econ Dev and Env Affairs & Tourism		Mr Graham Taylor	Coega IDZ		
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	<p>Mr Harms du Plessis      Lower Sundays IB</p> <p>Ms Rienette Colesky      Gamtoos IB</p> <p>Ms Annalie Marais      Prov Dept Agriculture and Land Affairs</p> <p>Mr K Nkantsu      SALGA Eastern Cape</p> <p>Mr Z Mpulampula      SALGA Eastern Cape</p> <p>Mr Bogumsa Panda      EC Prov Dept of Human Settlement</p> <p>Mr Barry Martin      NMBM</p> <p>Mr Stan Groenewald      NMBM</p> <p>Mr Paul Herbst      DWA: WUE</p>	
3.	<p><b>APPROVAL OF AGENDA</b></p> <p>The agenda was approved as is.</p>	
4. 4.1	<p><b>APPROVAL OF PREVIOUS MINUTES</b></p> <p>The minutes of the meeting of 28 March 2012 was accepted with the following changes:</p> <p>11.1 on p 4 re WC/WDM: Replace "AL reported that DWA is prepared to match any funds..." by "AL reported <b>previously</b> that DWA is prepared to match any funds..."</p> <p>13.3 on p 6 re Re-Use of Water: 'WO pointed out that 50-60 MI/day is needed to fill reservoirs for use by CDC' to be replaced by 'WO pointed out that 50-60 MI/day <b>of potable water will eventually be required by the CDC</b>'</p>	
5. 5.1	<p><b>MATTERS ARISING FROM PREVIOUS MINUTES</b></p> <p><b>Algoa Bridging Study</b></p> <p>IT reported that although the bridging study is not yet signed, it has been completed, and the reports have been made available to the study team.</p>	
6.	<p><b>PRESENTATIONS</b></p> <p>Dr David Le Maitre and Ms Maura Andrews were asked to do a presentation on the Kromme Ecosystem and other integrated catchment management activities they are involved with. The subject of the presentation was 'Restoration as a means to increase water supply &amp; security for the NMBM'. The presentation is attached to the minutes. IT mentioned that a meeting was held between all roll-players in the catchment area to discuss all the activities and to accomplish cohesion between the parties. Another meeting will be held in 6 months' time to report on progress with the different initiatives. PJ commented that a great amount of work is already being done in the area - catchment rehabilitation is being done, wetlands protected, black wattle eradicated and work on the catchments of the wetlands is also being done.</p> <p>IT suggested NC to take the possibility of buying carbon credits from the area to the business chamber.</p>	NC
7. 7.1  7.2	<p><b>RELEVANT PROJECTS &amp; INITIATIVES UNDERTAKEN BY OTHER RESPONSIBLE ENTITIES</b></p> <p><b>Annual Operating rules</b></p> <p>DC reported the following:</p> <p>The model for the Algoa WSS operating rules was run and due to the current favourable situation in the System no water restrictions for the period July 2012 to June 2013 will be necessary.</p> <p><b>Establishment of upper Kouga/Kromme WUA</b></p> <p>The idea was that a group would be formed that could act as a spokesperson for all</p>	

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	<p>irrigators. The situation is however that many irrigators don't want to amalgamate into one WUA. The transformation of the Gamtoos and Baviaans Irrigation Boards are in process. No focus will be on other irrigation boards during this financial year.</p>	
<p><b>7.3</b></p> <p><b>7.4</b></p>	<p><b>Verification and validation of water use study of a part of the Kromme and Kouga catchment areas</b>            SB informed the meeting that a tender for the verification and validation of areas L82 A-D closed the previous day (25 September). She hopes to also obtain budget to do the same work for the rest of the Kromme and Kouga catchment areas, as the tender only cover 50% of the work that needs to be done. The intention is to appoint a consultant within 6 weeks. IT mentioned that this V&amp;V is needed to determine the current land and water uses and funding is urgently needed for studies of the rest of the catchment area, to enable updating of the system hydrology.</p> <p><b>Integrated Catchment Management</b>            This issue was addressed under point 6.</p>	
<p><b>8.</b></p> <p><b>8.1</b></p> <p><b>8.2 &amp; 8.3</b></p>	<p><b>WATER REQUIREMENTS AND USE</b></p> <p><b>Coega IDZ water requirements</b>            AfriCoast has investigated the provision of industrial water to the Coega IDZ. The findings are documented in the Draft Status Report that was disseminated to all the members previously. No further discussion.</p> <p><b>Other Water Requirements and Updated Water Use/Water Balance Scenarios</b>            EvdB did a presentation on the topic. The presentation is attached to the minutes. The water requirements and water use emphasized the importance of the completion of the Nooitgedagt Low-level Scheme (NLLS). JvR mentioned that desalination will always be a handy augmentation option for coastal towns. He also said that the implementation of the Reserve was not discussed and that it could have serious effects on the area. IT indicated that the Reserve for the Kromme was signed off, but implementation has not yet been decided on. JvR suggested it to be phased in. No Reserve determination has yet been done for the Kouga system. This is the responsibility of DWA RDM.</p> <p>It was said that climate change can be prepared for, but schemes should not be implemented based on the fear of climate change impacts only, until we have better proof of its effects locally.</p>	
<p><b>9.</b></p> <p><b>9.1</b></p>	<p><b>IMPROVING THE CONFIDENCE OF WATER AVAILABILITY</b></p> <p><b>Proposed water availability assessment study - Kromme/Kouga</b>            IT explained the need to update the System hydrology to verify the available yield, but the verification and validation results of the area must be available to do this work. PM said she believed that additional funds need to be made available to undertake all the necessary V&amp;Vs.</p>	
<p><b>10.</b></p> <p><b>10.1</b></p> <p><b>10.2</b></p>	<p><b>OPERATIONAL EFFICIENCY</b></p> <p><b>Darlington Dam Operating Capacity and Dam Safety Rehabilitation Programme</b>            DC reported that Darlington Dam is only operating at 40% of its yield due to dam safety requirements. The dam is on the list to be rehabilitated</p> <p><b>Additional balancing storage in the LSRGWS</b>            AL mentioned that although the system was not designed for this, there is a need to keep water in the canals for domestic use. The issue will be discussed in a meeting by a smaller group chaired by JvR.</p>	<p>JvR</p>

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11.	<b>WC/WDM</b>	
11.1	<b>NMBM</b>  PdP indicated that there is nothing new to report. WC/WDM is on-going and is reported on in the status report. Repairs to schools have started with the R2.5 million that was received from the Provincial Department of Education. DWA still to pay the matching R2.5 million to NMBM for further repairs to schools.	DWA
11.2	<b>Other Municipalities</b>  DvR reported that there has been a decline in the water use in the St Francis Bay area according to the latest information available. IT said that ML from DWA is assisting with the developing of a WC/WDM Strategy and that the matter is getting the necessary attention.	
11.3	<b>Volkswagen WC/WDM initiative</b>  NC did a presentation on the initiatives at Volkswagen to reach their goal: 'The brand's production department wants a 25% reduction for the most important environmental key figures by 2018.' They plan on reaching the target by reducing the environmental burden in all plants around the world. Volkswagen measures their progress progress by the defined key figures for: <ul style="list-style-type: none"> <li>• Energy consumption</li> <li>• Water consumption</li> <li>• Waste produced</li> <li>• CO2 emissions</li> <li>• Solvent emissions.</li> </ul> Volkswagen is well on the way to reach their targets ahead of time in their local factories.  PM suggested that DWA should expand their views. Currently DWA is focussing on municipalities, but should consider looking at other sectors too. PvN suggested DWA to put something about the Volkswagen initiative and achievements in the DWA newsletter.	DWA
12.	<b>ORANGE RIVER INTER-BASIN TRANSFER SCHEME</b>	
12.1	<b>Nooitgedagt Low Level Scheme (NLLS) Implementation and Financing</b>  Phase 1 of the project is nearly complete. Money is urgently needed for phase 2 and 3, as water will not be available to the system without completion of these phases. Depending on funding being obtained, the earliest availability of water will only be the first quarter of 2015.  NMBM made a request to DWA for funding and the DWA Capex committee has a meeting on 28 September, but the possibility of receiving money from DWA is not great. JvR indicated that the issue is between NMBM and National Treasury. He also suggested the NMBM to use all their resources to secure money for the project.  R220 million has already been spent on the project. R450 million drought relief funds were received from National Treasury, but an additional R350 million is needed to complete all phases of the project. It would not be possible to utilise any water if the money necessary to complete the project is not raised. If funds are made available, the project will be finished by October 2013. The Metro is looking for grants as they are not allowed to apply for loans to raise money.	
12.2	<b>Other Orange River water options – return flows and water trading (Orange river inter-basin transfer scheme)</b>  Monitoring gauges for flow rates and quality of return flows for a period of 2 years in	

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	<p>the Lower Sundays, have confirmed that -</p> <ul style="list-style-type: none"> <li>• A minimum flow rate of 43 million m<sup>3</sup>/a (120 MI/day) is available and</li> <li>• A maximum conductivity of some 4340 µS/cm could be expected.</li> </ul> <p>The monitoring at the DWA station confirms that a feasibility study for a 16-18 million m<sup>3</sup>/a (45-50 MI/day) potable water supply from this source could be justified.</p> <p>S Mullineux has compiled an initial discussion document on Water Trading in the Upper Fish River irrigation areas. Based on future demand scenarios and source options for NMBM, NMBM needs to take a decision on when and how to proceed with this option.</p>	NMBM
<p><b>13.</b></p> <p><b>13.1</b></p> <p><b>13.2</b></p> <p><b>13.3</b></p>	<p><b>RE-USE OF WATER</b></p> <p><b>NMBM Water Master Plan update</b></p> <p>The first draft of the NMBM WMP2012 was submitted in June 2012. This is now being amended and should be completed by end September 2012. Re-use within the WMP2012 is limited to industrial water supply to the IDZ only.</p> <p><b>Re-use of Water treated to Industrial Standards</b></p> <p>DvR stated that consultants for the upgrade of the FWF WWTW inlet works and conversion of part of the process plant to a membrane bioreactor (MBR) process, has been appointed by NMBM.</p> <p>An environmental impact assessment study was undertaken for the proposed scheme and an ROD is expected in October 2012.</p> <p>WO stated that, in order to advance the project, the CDC has funded the design stage and has appointed the same project team which was under appointment of the NMBM.</p> <p>A submission was made to DEDEA for a variation in the IDZ ROD which will allow potable water to be used as an interim industrial water supply until the industrial water from FWF becomes available.</p> <p><b>Re-use of Water Treated to Potable Standards</b></p> <p>The Loerie Indirect Re-use Scheme was conceptualised during the planning of the implementation of the Fish Water Flats to Coega IDZ industrial water scheme, as it provides the opportunity for 40 MI/d excess treated water to be conveyed to Loerie Dam for indirect potable re-use.</p> <p>DvR stated that the Loerie Indirect Re-use scheme is dependent on spare capacity at Loerie WTW as well as a new rising main to Summit reservoir. This spare capacity is subject to the Kouga Dam wall strengthening or raising options. In the event of the raising option, additional water supplied to NMBM will take up the spare capacity in the bulk supply system which will render the indirect re-use scheme “un-economic”. This option is thus still subject to a study on the feasibility of raising the Kouga Dam.</p>	DvR
<p><b>14.</b></p> <p><b>14.1</b></p>	<p><b>GROUNDWATER</b></p> <p><b>NMBM Groundwater Scheme study in progress</b></p> <p>All geophysics investigations have been complete and the final borehole siting along the Coega Kop area and the Uitenhage areas are nearly finalised. Two drilling tender processes failed as the tenderers were deemed non-responsive on both occasions. The existing DWA regional drilling contracts are now considered as a potential means to undertake the drilling. NMBM planned on using these DWA contracts, but the planned boreholes at Coega Kop will be deeper than what was specified for the DWA contracts. The DWA tenders could therefore only be used for relatively shallow holes. The NMBM has asked for and received quotes for the deeper holes. An item has been prepared to go to the municipal manager for signoff</p>	

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	<p>as this requires a deviation from the supply chain management policy.</p> <p>The abstraction licence application is virtually complete. The NMBM had a meeting with the CDC to enquire if the CDC property could be included in the application. A decision from CDC is awaited.</p>	WO
<p><b>15.</b></p> <p><b>15.1</b></p>	<p><b>SEAWATER DESALINATION</b></p> <p><b>NMBM Desalination Scheme</b></p> <p>Consultants have been appointed to do a feasibility study on a bigger desalination plant at the western side of the Metro. The project is progressing well and a progress meeting is scheduled for 17 October. The consultants are looking at:</p> <ul style="list-style-type: none"> <li>• Site location</li> <li>• Technology to use</li> <li>• Possibility of using renewable energy</li> <li>• Funding arrangement.</li> </ul>	
<p><b>16.</b></p>	<p><b>KOUGA DAM REHABILITATION PROGRAMME AND FEASIBILITY OF FUTURE RAISING</b></p> <p>DWA has started an investigation and preliminary design on the rehabilitation of the dam. This should be finished by mid-2013. If the study confirms that significant construction would be needed for the rehabilitation, the dam could potentially also be raised at the same time. This will be determined by the investigations and modelling still being undertaken. A hydrology update study also needs to be done to determine whether there would be any benefit in yield available by raising the dam wall.</p> <p>There will be a delay of this work as an EIA for the access road is needed. The upgrading of the road will probably only start in April 2013 and construction at the dam will start one year later, 2014.</p>	DWA
<p><b>17.</b></p>	<p><b>IMPACTS ON YIELDS OF EXISTING DAMS: ECOLOGICAL RESERVE &amp; CLIMATE CHANGE</b></p> <p>No discussion</p>	
<p><b>18.</b></p> <p><b>18.1</b></p> <p><b>18.2</b></p> <p><b>18.3</b></p>	<p><b>COMMUNICATION</b></p> <p><b>Status Report</b></p> <p>The September 2012 Draft Status Report was compiled and IT asked everybody to send comments and feedback to RZ by 15 October 2012 after which the report will be finalised.</p> <p>PM suggested reporting the Volkswagen initiatives to the Provincial Water Forum. If she needs assistance, she would contact the relevant people of DWA.</p> <p><b>Media Release</b></p> <p>The media release was drafted and disseminated. Comments on the draft to be sent back by 15 October 2012.</p> <p><b>Webpage</b></p> <p>A webpage for each reconciliation strategy is being developed. The Algoa reconciliation strategy webpage is close to completion and would be up and running within the next few weeks.</p>	<p>All</p> <p>PM</p> <p>All</p>
<p><b>19.</b></p>	<p><b>GENERAL</b></p> <p><b>NMBM Pipe Failure</b></p> <p>EvdB and PduP presented a slideshow on the recent NMBM Churchill Pipeline failure.</p>	

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20.	<b>NEXT MEETING</b> The next Strategy Steering Committee meeting will take place on 27 March 2013 @ 9h00 at Aurecon's offices in Port Elizabeth	
21.	<b>CLOSURE</b> The meeting was adjourned at 14:30.	