



---

## MINUTES OF MEETING

---

**Algoa Reconciliation Strategy: Administrative and Technical Support Group Meeting No 4,  
held on 16 August 2012 at the offices of Aurecon, Port Elizabeth**

Item		Action																																																																								
1.	<b>WELCOME</b>  The chairperson, Ms Isa Thompson welcomed everybody to the meeting.																																																																									
2.	<b>ATTENDANCE AND APOLOGIES</b>  <b>Attendance</b> <table><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 Jenny Pashkin</td><td>DWA: WRPS</td><td>JP</td></tr><tr><td>Mr Pierre Joubert</td><td>Gamtoos IB</td><td>PJ</td></tr><tr><td>Ms Rienette Colesky</td><td>Gamtoos IB</td><td>RC</td></tr><tr><td>Mr Stephen Mullineux</td><td>DWA: DCE: Water Use Regulation</td><td>SM</td></tr><tr><td>Mr Martin Labuschagne</td><td>DWA: ECRO: WR&amp;U-WUE</td><td>ML</td></tr><tr><td>Mr Stan Groenewald</td><td>NMBM</td><td>SG</td></tr><tr><td>Mr Paul du Plessis</td><td>NMBM</td><td>PdP</td></tr><tr><td>Mr Nick Chapman</td><td>VWSA</td><td>NC</td></tr><tr><td>Mr Graham Taylor</td><td>Coega IDZ</td><td>GT</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> <b>Apologies</b> <table><tr><td>Ms Siziwe Blie</td><td>DWA: DD:IE</td><td>SB</td></tr><tr><td>Mr Theo Geldenhuys</td><td>DWA: CE: Water Resources Management</td><td>TG</td></tr><tr><td>Mr Menard Mugumo</td><td>DWA: OA (S)</td><td>MM</td></tr><tr><td>Mr Elias Nel</td><td>DWA: WRPS</td><td></td></tr><tr><td>Mr Koos Viljoen</td><td>DWA: NWRI</td><td></td></tr><tr><td>Mr Willie Olivier</td><td>Coega IDZ</td><td>WO</td></tr><tr><td>Mr Piet Snyman</td><td>Cacadu DM</td><td>PS</td></tr><tr><td>Ms Celiwe Ntuli</td><td>DWA: WRPS</td><td></td></tr><tr><td>Mr Pieter Viljoen</td><td>DWA: WRPS</td><td></td></tr><tr><td>Mr Jeff Govender</td><td>DEAET</td><td>JG</td></tr></table>	Ms Isa Thompson	DWA: NWRP (S)	IT	Mr Dewald Coetzee	DWA: NWRI: Southern Operations	DC	Ms Jenny Pashkin	DWA: WRPS	JP	Mr Pierre Joubert	Gamtoos IB	PJ	Ms Rienette Colesky	Gamtoos IB	RC	Mr Stephen Mullineux	DWA: DCE: Water Use Regulation	SM	Mr Martin Labuschagne	DWA: ECRO: WR&U-WUE	ML	Mr Stan Groenewald	NMBM	SG	Mr Paul du Plessis	NMBM	PdP	Mr Nick Chapman	VWSA	NC	Mr Graham Taylor	Coega IDZ	GT	Mr Dup van Reenen	AfriCoast Engineers SA	DvR	Mr Erik van der Berg	Aurecon	EvdB	Ms Reina Zastron	Aurecon	RZ	Ms Siziwe Blie	DWA: DD:IE	SB	Mr Theo Geldenhuys	DWA: CE: Water Resources Management	TG	Mr Menard Mugumo	DWA: OA (S)	MM	Mr Elias Nel	DWA: WRPS		Mr Koos Viljoen	DWA: NWRI		Mr Willie Olivier	Coega IDZ	WO	Mr Piet Snyman	Cacadu DM	PS	Ms Celiwe Ntuli	DWA: WRPS		Mr Pieter Viljoen	DWA: WRPS		Mr Jeff Govender	DEAET	JG	
Ms Isa Thompson	DWA: NWRP (S)	IT																																																																								
Mr Dewald Coetzee	DWA: NWRI: Southern Operations	DC																																																																								
Ms Jenny Pashkin	DWA: WRPS	JP																																																																								
Mr Pierre Joubert	Gamtoos IB	PJ																																																																								
Ms Rienette Colesky	Gamtoos IB	RC																																																																								
Mr Stephen Mullineux	DWA: DCE: Water Use Regulation	SM																																																																								
Mr Martin Labuschagne	DWA: ECRO: WR&U-WUE	ML																																																																								
Mr Stan Groenewald	NMBM	SG																																																																								
Mr Paul du Plessis	NMBM	PdP																																																																								
Mr Nick Chapman	VWSA	NC																																																																								
Mr Graham Taylor	Coega IDZ	GT																																																																								
Mr Dup van Reenen	AfriCoast Engineers SA	DvR																																																																								
Mr Erik van der Berg	Aurecon	EvdB																																																																								
Ms Reina Zastron	Aurecon	RZ																																																																								
Ms Siziwe Blie	DWA: DD:IE	SB																																																																								
Mr Theo Geldenhuys	DWA: CE: Water Resources Management	TG																																																																								
Mr Menard Mugumo	DWA: OA (S)	MM																																																																								
Mr Elias Nel	DWA: WRPS																																																																									
Mr Koos Viljoen	DWA: NWRI																																																																									
Mr Willie Olivier	Coega IDZ	WO																																																																								
Mr Piet Snyman	Cacadu DM	PS																																																																								
Ms Celiwe Ntuli	DWA: WRPS																																																																									
Mr Pieter Viljoen	DWA: WRPS																																																																									
Mr Jeff Govender	DEAET	JG																																																																								

Item		Action
3.	<p><b>ADOPTION OF AGENDA</b></p> <p>The following additions were made to the agenda:</p> <p>5.6 Integrated Catchment Management</p> <p>5.7 Orange River Reconciliation Strategy</p> <p>8.3 OFS real-time System</p> <p>9.4 Volkswagen WC/WDM</p> <p>17.4 Webpage Update</p> <p>18.1 NMBM Pipe Failure</p>	
4.	<p><b>APPROVAL OF PREVIOUS MINUTES</b></p> <p>The minutes of the meeting held on 26 April 2012 was adopted with the only correction being the removal of the name of Mr Stephen Mullineux under 'Apologies' point 2 as he has attended the meeting and is also listed under 'Attendance'</p>	
5	<p><b>RELEVANT PROJECTS &amp; INITIATIVES UNDERTAKEN BY OTHER RESPONSIBLE ENTITIES</b></p>	
5.1	<p><b>Annual Operating rules</b></p> <p>The model for the operating rules was run by using the system storages of 1 June 2012. The meeting to make the decisions regarding water allocations/restrictions for the period Jul 2012-June 2013 was held on 18 June 2012. In future, this meeting should be held before the end of May. DWA also plans to have a meeting in January of each year. The system is currently full and the Gamtoos has a 100% allocation for the year. PdP is distributing output of the works monthly. JP of DWA receives the information for modelling purposes. IT asked PdP to also mail her the information on a monthly basis. JP to send the annual operating rules run to RZ for distribution to the members.</p>	PdP JP
5.2	<p><b>Establishment of upper Kouga/Kromme Irrigators WUA</b></p> <p>The <i>status quo</i> stays the same. The idea was that an umbrella WUA would be formed that could act as a spokesperson for all irrigators in the area. The situation is however that many irrigators don't want to amalgamate. The current irrigation boards will therefore be transformed to individual water users associations.</p>	
5.3	<p><b>Verification and validation of water use study of a part of the Kromme and Kouga catchment areas</b></p> <p>This project is the responsibility of the DWA EC Regional Office. The application to re-advertise the tender is with the DWA supply chain management. Approval is urgently awaited.</p>	SB
5.4	<p><b>Algoa Bridging Study</b></p> <p>The Algoa Bridging study was completed and final signoff from the Chief Director, Solly Maduba is awaited. IT will distribute the final report to the members after signoff.</p>	IT
5.5	<p><b>South African Revenue Protection Group</b></p> <p>No discussion as this group only meets once a year.</p>	
5.6	<p><b>Integrated Catchment Management</b></p> <p>DWA was contacted by the Living Lands and Maura Andrew and Arnade rebello postgraduate student at Rhodes University to discuss integrated catchment management in the Baviaanskloof, Kouga and Kromme catchments. The object is to integrate all current water and catchment related initiatives in the area. It is DWA's intent to set up a working group to take forward a collaborative process of promoting effective catchment management plans and institutions for the Baviaanskloof, Kouga and Kromme catchments as a means of securing additional water for the Nelson Mandela Bay Metro. This working group will involve the relevant officials from the DWA</p>	

Item		Action
5.7	<p>as well as a variety of other stakeholders working in these catchments that share this interest and want to contribute to the process. The first meeting is set up for 25 September. PJ will forward the invitation to a representative from Dept of Rural Development as well as to Sam van der Merwe.</p> <p><b>Orange River Reconciliation Strategy</b></p> <p>DC reported back on the Orange River Reconciliation Strategy study that started recently. The objective of the study is to develop a reconciliation strategy for the bulk water resources of the Orange River System to ensure that sufficient water can be made available to supply the current and future water needs of all the users up to the year 2040. An inception report for this strategy is available and will be disseminated with the minutes of the meeting.</p>	PJ
6 6.1  6.2  6.3	<p><b>WATER REQUIREMENTS AND USE</b></p> <p><b>Coega IDZ water requirements</b></p> <p>GT indicated that there is no change to the requirements as previously reported. The request for amendment of the ROD was sent to DEDEAT on 15 August 2012. A response is still awaited. GT will send a copy of the ROD amendment application to RZ. The application will be disseminated with the minutes.</p> <p><b>Kouga LM water requirements</b></p> <p>SG reported that the NMBM has sent Kouga LM a letter on 16 June 2012 regarding their high growth in water requirements. Kouga LM replied with a letter on the 20<sup>th</sup> of June. The letter will be distributed with the minutes. Kouga LM indicated that they have a WC/WDM plan in place and the bulk water mains and storage reservoirs will be inspected regularly. DWA allocated funds for water conservation and Amatola Water Board has also been appointed to assist. IT asked ML to get involved with the matter. DvR reported that it seems that their water use is now declining.</p> <p><b>Change depiction of water use to Jul-Jun</b></p> <p>EvdB confirmed that the water use depiction on the graph was updated as requested.</p>	GT          ML
7  7.1	<p><b>IMPROVING THE CONFIDENCE OF WATER AVAILABILITY</b></p> <p><b>Proposed water availability assessment study – Kouga-Loerie and Churchill-Impofu</b></p> <p>Verified and validated water use information from the study for the Kouga Dam catchment, as reported under point 5.3, is needed for this study. The study was planned to start in October 2012, but with the delay of the V&amp;V Study, this study would probably start much later, probably only towards the end of 2013. An investigation into the feasibility of the raising of Kouga Dam is dependent on the availability of this information.</p>	
8  8.1  8.2	<p><b>OPERATIONAL EFFICIENCY</b></p> <p><b>Darlington Dam Operating capacity and dam safety rehabilitation programme</b></p> <p>DC indicated that there has been no further progress. The operating rules and water quality issues still need to be addressed. It is on the program, but not moving much. JP will keep her eye on the situation.</p> <p><b>Additional balancing storage in the LSRGWS</b></p> <p>The issue of enlargement of the capacity of the Scheepersvlakte Balancing Dam and canal still needs to be taken up between NMBM, Dewald Coetzee of DWA NWRI: Southern Operations and Menard Mugumo (MM) of DWA Options Analysis. DC indicated that the Metro should consider increasing potable storage.</p>	JP       MM/DC

Item		Action
8.3	<p><b>Orange-Fish-Sundays Real-time System</b></p> <p>DC mentioned that DWA has a new real-time OFS system running in their office. He suggested that at the next ATSG meeting, his office will set up a room to demonstrate this system.</p>	DC
<p>9</p> <p>9.1</p> <p>9.2</p> <p>9.3</p> <p>9.4</p>	<p><b>WC/WDM</b></p> <p><b>Report by NMBM</b></p> <p>The reconciliation strategy set the NMBM a target to reduce water losses by 37 MI/day over a 5 year period.</p> <p>The real water losses dropped from 29,3% in 2009/10 to 26,2% in 2010/11, which amounts to a saving of 13 MI/day or R27 million over the 12 months. The same comparison between 2011 and 2012 showed an increase in real losses of 6 MI/day. The NMBM is however confident that ongoing water conservation and water demand management (WC/WDM) interventions will ensure that the above target is met. An update on all initiatives of WC/WDM can be found in the updated status report that will be tabled at the SSC meeting of 26 September.</p> <p><b>WC/WDM at NMBM Schools</b></p> <p>As the Metro received R2.5 million from DoE, repairs to water infrastructure at the schools have started.</p> <p><b>Report on progress of other Municipalities</b></p> <p>ML mentioned that a Fish to Tsitsikamma WC/WDM Strategy &amp; BP study has been done. He will ask Willem Wegelen to do a presentation on the outcome of the study at the next ATSG meeting.</p> <p><b>Volkswagen WC/WDM initiatives</b></p> <p>NC did a presentation of the initiatives at Volkswagen as 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:</p> <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> <p>Volkswagen is well on the way to reach their target. NC was asked to prepare an abbreviated presentation for the SCC meeting on 26 September 2012.</p>	<p>ML/WW</p> <p>NC</p>
<p>10</p> <p>10.1</p>	<p><b>ORANGE RIVER INTER-BASIN TRANSFER SCHEME</b></p> <p><b>Nooitgedagt Low-Level Scheme (NLLS) Implementation and Financing</b></p> <p>Phase 1 of the project incorporates the minimum contracts required to bring water from the Gariep Dam to NMBM. All seven contracts of Phase 1 have been awarded. Progress on the 7 contracts which have been awarded to date, is as follows:</p> <ul style="list-style-type: none"> <li>• The rising pipeline to and gravity main from Olifantskop reservoir site will be completed by November 2012 (2 contracts).</li> <li>• The first 10 MI balancing reservoir at Olifantskop site will be completed by April 2013 (1 contract).</li> <li>• The Motherwell and Stanford Road booster pump stations will be completed by</li> </ul>	

Item		Action																
10.2	<p>March 2013 (2 contracts). The completion date for the pump stations have been delayed due to long delivery and testing periods for pumping equipment.</p> <ul style="list-style-type: none"><li>• The “emergency “extension at the Nooitgedagt WTW will be completed by November 2012.</li><li>• The additional HV/MV transformer will be commissioned by October 2012.</li></ul> <p>In order to complete the project, a further 4 contracts are required for which some R350 million is still needed. The design and tender documentation have been completed and further progress is directly linked to funding availability. Based on present status, completion of the Nooitgedagt Low-Level Scheme could be delayed until end 2014.</p> <p>The following contracts are outstanding:</p> <ul style="list-style-type: none"><li>• Extensions to Nooitgedagt WTW (Remainder Civil)</li><li>• Extensions to Nooitgedagt WTW (Remainder Mechanical &amp; Electrical)</li><li>• 45 MI Reservoir</li><li>• Low Lift Pump Station Mechanical Equipment</li></ul> <p><b>Trading of Orange River Irrigation Authorisations – Upper Fish River</b></p> <p>The discussion document on the issue was sent out after the previous meeting. The table below provides the costs of water bought out from a willing seller in the upper Fish River, and abstracted by NMBM at the end of the Nooitgedagt pipeline.</p> <table><tr><th>Entitlement Description</th><th>Average paid per hectare (R)</th><th>Cost in cents/m³ at 98% assurance of supply excluding 107,44 cents/ m³ Nooitgedagt tariff</th><th>Cost in cents/m³ at 98% assurance of supply including 107,44 cents/ m³ Nooitgedagt tariff</th></tr><tr><td>Unused entitlements</td><td>R22 000</td><td>17</td><td>124 cents/ m³</td></tr><tr><td>Entitlement developed and productive with flood irrigation</td><td>R80 000</td><td>63</td><td>170 cents/ m³</td></tr><tr><td>Entitlement developed and productive with centre pivot irrigation</td><td>R120 000</td><td>94</td><td>201 cents/ m³</td></tr></table>	Entitlement Description	Average paid per hectare (R)	Cost in cents/m³ at 98% assurance of supply excluding 107,44 cents/ m³ Nooitgedagt tariff	Cost in cents/m³ at 98% assurance of supply including 107,44 cents/ m³ Nooitgedagt tariff	Unused entitlements	R22 000	17	124 cents/ m³	Entitlement developed and productive with flood irrigation	R80 000	63	170 cents/ m³	Entitlement developed and productive with centre pivot irrigation	R120 000	94	201 cents/ m³	
	Entitlement Description	Average paid per hectare (R)	Cost in cents/m³ at 98% assurance of supply excluding 107,44 cents/ m³ Nooitgedagt tariff	Cost in cents/m³ at 98% assurance of supply including 107,44 cents/ m³ Nooitgedagt tariff														
	Unused entitlements	R22 000	17	124 cents/ m³														
Entitlement developed and productive with flood irrigation	R80 000	63	170 cents/ m³															
Entitlement developed and productive with centre pivot irrigation	R120 000	94	201 cents/ m³															
10.3	<p>Many assumptions were made before arriving at the figures, thus the cost could change slightly.</p> <p><b>Desalination of Sundays River irrigation return flows</b></p> <p>Monitoring is continuous and results are provided to the Metro. No further discussion.</p>																	
11	<p><b>RE-USE OF WATER</b></p>																	
11.1	<p><b>NMBM Water Master Plan Update</b></p> <p>DvR indicated that the first draft was issued for comments. The second draft will be available in the second week of October.</p>																	
11.2	<p><b>Re-use of water treated to industrial standards – Coega and Fish Water Flats WWTWs</b></p> <p>A planning report has been compiled, including an option for privatisation. WO indicated that the Coega IDZ has requested NMBM to pursue this option but has not yet received any feedback. GT mentioned that the ROD is still outstanding. DvR will follow up with SRK re progress on the ROD. Funding is still an issue. The business plan for this option will be finished by September.</p>	DvR																

Item		Action
<b>12</b> <b>12.1</b>  <b>12.2</b>	<b>GROUNDWATER</b> <b>NMBM Groundwater Scheme study in Progress</b> <p>All geophysics have been complete and the final borehole siting along the Coega Kop area and the Uitenhage areas are in process of being 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 as this is a deviation of the supply chain management policy. If all goes according to plan, drilling could start in October 2012.</p> <b>Other Groundwater Issues</b> <p>No discussion. The final report on the drilling target areas will <i>inter-alia</i> be made available to Kouga LM.</p>	
<b>13</b> <b>13.1</b>  <b>13.2</b>  <b>13.3</b>	<b>SEAWATER DESALINATION</b> <b>NMBM desalination scheme</b> <p>The Swartkops Desalination plant designs have been put on ice. The NMBM plans to buy the land to be able to keep this option as an emergency scheme. In the longer run a larger scheme to the western side of the Metro would be needed. Funding for the investigations of such a scheme is in place and the NMBM has appointed a consultant to undertake a feasibility study.</p> <b>Seawater desalination prospects at Coega IDZ</b> <p>PetroSA looked at the option, but indicated that they were not interested. No further movement.</p> <b>Monitoring of Seawater Quality</b> <p>No discussion.</p>	NMBM
<b>14</b>	<b>LOCAL SURFACE WATER DEVELOPMENT</b> <b>Kouga Dam Safety Work in light of Potential Raising</b> <p>DWA's Directorate Dam Safety has started an investigation into the rehabilitation and stabilisation of the Kouga Dam wall. If the study points out that significant construction would be needed for the rehabilitation, the wall could potentially also be raised at the same time. This will be determined by the investigations and modelling still to be undertaken.</p> <p>A DWA dam safety meeting scheduled for mid-April was unfortunately postponed. PJ mentioned that 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>	
<b>15</b> <b>15.1</b>	<b>COMMUNICATION</b> <b>Draft Media Release</b> <p>A draft media release for September was distributed to the members. Comments are awaited.</p>	All

Item		Action
15.2	<b>Draft Annual Status Report to Strategy Steering Committee</b> A draft of the second status report was distributed to the members. IT asked for comments by the end of August.	All
16	<b>IMPACTS ON YIELDS OF EXISTING DAMS: ECOLOGICAL RESERVE AND CLIMATE CHANGE</b>	
16.1	<b>Implementing the Reserve for existing dams</b> DC stated that no instruction for the implementation of the signed Reserve has been received. This should be followed up with Ms B Weston.	BWeston/ NMohapi
16.2	<b>Climate Change</b> No discussion	
17.	<b>CONTRACT ADMINISTRATION</b>	
17.1	<b>Budget and Cash flow</b> Nothing to report	
17.2	<b>Payment of Invoices</b> No outstanding issues reported	
17.3	<b>Additional team members and fees</b> No discussion	
17.4	<b>Webpage Update</b> A webpage is being developed for the Algoa WSS. This is 90% complete and will be distributed to the members for comments when complete.	All
18.	<b>GENERAL</b>	
18.1	<b>NMBM Pipe Failure</b> SG did a presentation of the recent pipe failure on 2 August 2012. IT congratulated the NMBM on the professional manner which they have dealt with the potential disaster. The Metro is busy writing an operational report on the whole process. IT has asked SG to do a similar presentation to SCC meeting on 26 September.	SG
19.	<b>NEXT MEETING</b> The next meeting will take place on Thursday 18 October 2012 at <b>09h00.</b>	
20.	<b>CLOSURE</b> The meeting was adjourned at 14h30.	

Enclosed:

1. Orange Reconciliation Strategy Inception Report
2. Submission to DEDEAT in support of KM EA amendment June 2012
3. Letter to DEDEAT re KM EA amendment Aug 2012
4. Letter to and from Kouga LM re water use
5. SARPA constitution