



## MINUTES OF MEETING

**Algoa WSS Reconciliation Strategy Continuation: ATSG Meeting 10 held on 9 May 2018 at 09h00 at the offices of Aurecon, Port Elizabeth**

Item		Action																																																																					
1.	<p><b>WELCOME</b></p> <p>Mr Paul Chilton, welcomed everybody to the meeting of the Administrative and Technical Support Group (ATSG) of the Algoa Water Supply System Reconciliation Strategy Continuation, on behalf of Mr Tendayi Makombe who was unable to attend the meeting.</p>																																																																						
2.	<p><b>ATTENDANCE AND APOLOGIES</b></p> <p><b>Attendance</b></p> <table> <tr> <td>Andreas Engelbrecht</td><td>GFRWUA</td><td>AE</td></tr> <tr> <td>Andrew Lucas</td><td>DWS ECape: Water Regulation and Use</td><td>AL</td></tr> <tr> <td>Bheki Kunene</td><td>DWS ECape: Proto-CMA</td><td>BK</td></tr> <tr> <td>Chandré Barnard</td><td>NMBM</td><td>CB</td></tr> <tr> <td>Erik van der Berg</td><td>Aurecon</td><td>EvdB</td></tr> <tr> <td>Graham Taylor</td><td>Coega SEZ</td><td>GT</td></tr> <tr> <td>Jeff Govender</td><td>DEDEAT</td><td>JG</td></tr> <tr> <td>Koos Viljoen</td><td>DWS: NWRI (SO)</td><td>KV</td></tr> <tr> <td>Martin Labuschagne</td><td>DWS ECape: WR&amp;U-Manager Sarah Baartman DM</td><td>ML</td></tr> <tr> <td>Mike Primmer</td><td>LSRWUA</td><td>MP</td></tr> <tr> <td>Nick Chapman</td><td>VWSA – Business Chamber</td><td>NC</td></tr> <tr> <td>Nico Lombard</td><td>Cacadu District Development Agency</td><td>NL</td></tr> <tr> <td>Paul Chilton</td><td>DWS: CE: Proto CMA CM</td><td>PC</td></tr> <tr> <td>Paul du Plessis</td><td>NMBM</td><td>PdP</td></tr> <tr> <td>Pieter Barry</td><td>DWS: RD: SO (acting)</td><td>PB</td></tr> <tr> <td>Pierre Joubert</td><td>Gamtoos IB</td><td>PJ</td></tr> <tr> <td>Rienette Colesky</td><td>Gamtoos IB</td><td>RC</td></tr> <tr> <td>Reina Zastron</td><td>Aurecon</td><td>RZ</td></tr> </table> <p><b>Apologies</b></p> <table> <tr> <td>Barry Martin</td><td>NMBM</td><td>BM</td></tr> <tr> <td>Dup van Reenen</td><td>AfriCoast Engineers SA</td><td>DvR</td></tr> <tr> <td>Jacques van der Merwe</td><td>DWS EC</td><td></td></tr> <tr> <td>Jenny Pashkin</td><td>DWS: D: WRPS Systems Operation</td><td>JP</td></tr> <tr> <td>Liz Metcalfe</td><td>Living Lands</td><td>LM</td></tr> </table>	Andreas Engelbrecht	GFRWUA	AE	Andrew Lucas	DWS ECape: Water Regulation and Use	AL	Bheki Kunene	DWS ECape: Proto-CMA	BK	Chandré Barnard	NMBM	CB	Erik van der Berg	Aurecon	EvdB	Graham Taylor	Coega SEZ	GT	Jeff Govender	DEDEAT	JG	Koos Viljoen	DWS: NWRI (SO)	KV	Martin Labuschagne	DWS ECape: WR&U-Manager Sarah Baartman DM	ML	Mike Primmer	LSRWUA	MP	Nick Chapman	VWSA – Business Chamber	NC	Nico Lombard	Cacadu District Development Agency	NL	Paul Chilton	DWS: CE: Proto CMA CM	PC	Paul du Plessis	NMBM	PdP	Pieter Barry	DWS: RD: SO (acting)	PB	Pierre Joubert	Gamtoos IB	PJ	Rienette Colesky	Gamtoos IB	RC	Reina Zastron	Aurecon	RZ	Barry Martin	NMBM	BM	Dup van Reenen	AfriCoast Engineers SA	DvR	Jacques van der Merwe	DWS EC		Jenny Pashkin	DWS: D: WRPS Systems Operation	JP	Liz Metcalfe	Living Lands	LM	
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3.	<p><b>ADOPTION OF AGENDA</b></p> <p>The agenda was adopted with one addition:</p> <p>16.1 (under General) Ad Hoc Studies</p>	
4	<p><b>APPROVAL OF PREVIOUS MINUTES</b></p> <p>The minutes of the meeting held on 7 March 2018 were accepted as is. Proposed changes sent by JP before the meeting have already been considered and incorporated.</p>	
5	<p><b>MATTERS ARISING FROM PREVIOUS MINUTES</b></p> <p>No matters arising that are not on the agenda.</p> <p>EvdB stated that there is some concern over the fact that the attendees of the ATSG meeting and the SSC meeting have over time largely become the same people. The initial thought was for senior people to attend the SSC meeting to make decisions, and recommendation in this regard would be appreciated. ML noted that the attending members have become more senior representative over time. This is also now a mature reconciliation process.</p> <p>AL proposed that the drought monitoring meeting and ASTG meeting to be combined. Aurecon to liaise with JP on the matter.</p>	RZ/JP
6.	<p><b>RELEVANT PROJECTS AND INITIATIVES UNDERTAKEN BY OTHER RESPONSIBLE ENTITIES</b></p> <p><b>6.1            AWSS Annual Operating Rules</b></p> <p>No discussion as no representative attended the meeting.</p> <p><b>6.2            Orange River Annual Operating Rules</b></p> <p>No discussion as no representative attended the meeting.</p> <p><b>6.3            OFS Real-time Model</b></p> <p>KV did a presentation on the Orange-Fish-Sundays Water Transfer Scheme and decision-support system.</p> <p>He noted that the system is large and consists of:</p> <ul style="list-style-type: none"> <li>▪ &gt; 1 000 km of tunnels, rivers and canals,</li> <li>▪ 2 reservoirs and 4 diversion weirs,</li> </ul>	

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	<ul style="list-style-type: none"> <li>▪ &gt; 150 water users (agriculture being largest user),</li> <li>▪ Approximately 48 000 ha of irrigation (Fish: 31 000 ha and Sundays 17 000 ha),</li> <li>▪ A volume of <math>\pm 700</math> million m<sup>3</sup> is annually transferred.</li> </ul> <p>The requested and actual transfers are monitored and the model identifies problems. DHI is assisting DWS with the model. Monitoring takes place where physical monitoring equipment is in place. KV congratulated AE with the strict monitoring rules that they have in place at the Great Fish River. Due to the operating rules introduced, wastage has been reduced.</p> <p>The Lower Sundays monitoring was also discussed. A graph was presented which shows the projected (allocated) use vs. the actual use. In previous years, LSRWUA has not used their full allocation. Unfortunately, proper balancing cannot be done as not all measuring weirs are in place. Weirs not yet in place have been identified and the report will be submitted to Dr Piet Wessels. AL to follow up on measuring weir requirements. EvdB indicated that quality and quantity measuring should continue. AL will find out what the status is and will attempt activating it again.</p> <p>KV indicated that Darlington Dam is currently operated at 30-35% of its capacity. The water leak at the dam is better managed than in the past. LSRWUA is operating Darlington Dam.</p> <p>He noted that the Little Fish River shuts down on a Friday. The model dictates volumes to release and when to shut down on a Friday.</p> <p>PJ mentioned that income for a WUA is from water, whether there is a drought or ample water available. KV replied that payment is per allocation and not per use. AL mentioned that the Gamtoos payment structure is working very well. The users pay for 80% of their allocation, and for their use of the last 20%.</p> <p>KV announced that to his knowledge, the document that was presented to the Minister of Water and Sanitation: 'Klipfontein Kranz Section Canal: 5 Stoney Gates not working in Eastern Cape' was signed by the Minister. This is an in-principal agreement for <i>inter-alia</i> the repairs of the Darlington Dam.</p> <p>JP was unable to attend the meeting, but provided EvdB with a presentation on the Orange-Fish-Sundays monitoring of Water Use and Transfer Effectiveness</p> <p>The presentation will be distributed with the minutes. The following is covered in the presentation:</p> <ul style="list-style-type: none"> <li>• Flow report for critical stations, which is map based,</li> <li>• GFRWUA Abstraction Compliance,</li> <li>• LSRWUA Abstraction Compliance,</li> <li>• Fish River spills,</li> <li>• Sundays River spills.</li> </ul> <p>ML mentioned that the James Kleynhans WTW is being upgraded and when fully functional, the water quality should improve.</p> <p>KV asked NMBM to send him the new projected estimated volumes from the Nooitgedagt WTW. PdP responded that the current volume is 130-140 Mℓ/day, and should go increase 200Mℓ/day within the next 3 months. PdP undertook to contact MP</p>	<p>AL</p> <p>AL</p> <p>PdP</p>

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	<p>at LSRWUA, as well as DWS, as soon as they have more certainty about the dates of the increased volumes. The LSRWUA will appoint more people to operate the weir during weekends, as soon as the volumes increase.</p> <p>AE asked to that a line be added, showing 25% allowance for losses in the graphs. The issue of the 15% vs. 25% losses still needs to be clarified and resolved.</p>	JP
6.4	<p><b>Verification and Validation (V&amp;V)</b></p> <p>BK gave general information on the status of the V&amp;V. He noted that the PSP's contract was concluded on 31 March 2018. Only 53% of the work is complete and there is still an influx of new applications.</p> <p>The work will be completed internally by DWS. Approximately 3000 applications have not yet been received.</p> <p>PJ mentioned that he is very worried about the situation in the catchment, as abstraction is not monitored. He noted that it is very important to complete the V&amp;V. He asked to prioritise the completion of the V&amp;V for the Kouga and Kromme catchments. BK undertook to prioritise the area. PJ also stressed that monitoring and measurement should not be the responsibility of the farmers. EvdB asked BK to provide him with the number of properties in these catchments where the verification is outstanding.</p> <p>BK will ensure that the estimated current use volume become available. It was agreed that the flying of the area to determine current use will be added to the add-hoc tack list, which will be discussed under point 16.1.</p> <p>JG indicated that the river system is being changed, which poses a huge problem. AL said that he has 3 officials in regulation for urban areas who could possibly assist JG with the regulation of the river. JG to liaise with AL on the matter.</p>	<p>BK</p> <p>BK</p> <p>JG</p>
6.5	<p><b>Working for Water and Working for Wetlands</b></p> <p>PJ reported that no work has been done since 1 April, as they are awaiting contract signoff by the Department of Environmental Affairs.</p>	
6.6	<p><b>Projects undertaken by Living Lands</b></p> <p>TG could not attend the meeting but sent an update for the period March 2018 to 9 May 2018, as follows:</p> <p>"In the Baviaanskloof, the team continues with innovative rehabilitation efforts, with students assisting in the capturing of lessons learnt.</p> <p>The most exciting news in the Langkloof is about the water fund. A steering committee as well as a working group has been established for the water fund, and the first working group meeting held.</p> <p>Honeybush Sensing Journey was held, where Honeybush farmers, seedling producers, and harvesters went to the Overberg. Here they explored the sustainable wild harvesting of fynbos and investigated honeybush trials and alternative production strategies. This lead to great enthusiasm amongst the stakeholders and highlighted the importance of growing together in the honeybush industry. On request from the honeybush Harvesters in Haarlem, a workshop was held in Haarlem that included a "Save a Life" course, a short summary of honeybush ecology and a snake</p>	

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9	<b>WATER REQUIREMENTS AND USE</b>	BK																							
9.1	<b>NMBM water requirements and use</b>  PdP reported that the average use for April was 266Ml/day.																								
9.2	<b>Coega SEZ water requirements</b>  GT indicated that there is no change in the water requirements of the Coega SEZ (previously IDZ). There are no new investors. The largest water user to come on board will need only 0.3 Ml/day.  The possible move of the manganese stockpile to the Coega SEZ is scheduled for 2023 at the earliest.  Construction of the re-use reservoir at Coega Kop has started, with planned completion in Dec 2018. Until treated wastewater becomes available, the reservoir will be used for potable water.  An EIA for a 16Ml desalination scheme has been approved.  JG mentioned that they have received an EIA application for freshwater aquaculture.  GT reported that that Coega SEZ is investigating the possibility of utilising the water in the Transnet quarry for construction. PC asked BK to check the V&V results of the Transnet quarry.  GT responded to a question from EvdB, that the water service agreement between NMBM and the SEZ indicates that NMBM will be their water service provider. Desalination for the SEZ could be a future possibility, but not in the short-term.																								
9.3	<b>Kouga LM water requirements</b>  No report as no representative attended the meeting. PJ mentioned that the other municipalities should be on rationing but that they are ignoring the fact. PC said that licencing could be used to ensure that they comply.																								
9.4	<b>WUE Fish and Sundays catchments</b>  EvdB noted that the WUE Component of this study was completed at the end of 2017 and that the final report, with detailed recommendations, was completed and circulated to relevant stakeholders. He reported that the timeframes and targets for the recommended WUE interventions were the following: <table><tr><th>No</th><th>Intervention</th><th>Timeframe</th><th>20140 targets</th></tr><tr><td>1</td><td>Reduce the allowance for canal losses in the GFRWUA</td><td>Reduce allowance by 1% each year</td><td>40</td></tr><tr><td>2</td><td>Reduce operational releases at the Elandsdrift and de Mistkraal weirs</td><td>Target 10% of potential savings each year</td><td>31</td></tr><tr><td>3</td><td>Reduce spills at Korhaansdrift Weir</td><td>Target 10% of potential savings each year</td><td>18</td></tr><tr><td>4</td><td>Improve measuring and monitoring systems</td><td>Continuous</td><td>Not quantified</td></tr><tr><td colspan="3">Total</td><td>89</td></tr></table>		No	Intervention	Timeframe	20140 targets	1	Reduce the allowance for canal losses in the GFRWUA	Reduce allowance by 1% each year	40	2	Reduce operational releases at the Elandsdrift and de Mistkraal weirs	Target 10% of potential savings each year	31	3	Reduce spills at Korhaansdrift Weir	Target 10% of potential savings each year	18	4	Improve measuring and monitoring systems	Continuous	Not quantified	Total		
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	<p>The recommended use of the targeted savings are as follows, indicated in million m<sup>3</sup>/a:</p> <table><tr><th>Water user</th><th>2040 Target</th></tr><tr><td>Reduced Orange River transfer volume to Eastern Cape</td><td>64</td></tr><tr><td>Small towns to apply for further allocations</td><td>7</td></tr><tr><td>NMBM to apply for further allocations</td><td>18</td></tr><tr><td><b>Total to consider for further allocations</b></td><td><b>25</b></td></tr></table> <p>PC asked when the savings will become available. EvdB responded that the Water Use Efficiency Directorate of the DWS should take this further, although some savings have already been realised. BK responded that they would need to understand which will be quick wins and work from there. PC proposed to look at the priority areas. AL mentioned that they must also look at the small towns' balancing storage. PC proposed that NMBM apply for a licence for an additional 18 million m<sup>3</sup>/a (50 Mℓ/d) of Orange River water supply, as indicated in the table.</p> <p>PC congratulated EvdB on the results of the study. This could result in significant financial benefit and the information could also be used for a catchment management strategy. EvdB said that the findings should be taken further by the DWS for implementation.</p>	Water user	2040 Target	Reduced Orange River transfer volume to Eastern Cape	64	Small towns to apply for further allocations	7	NMBM to apply for further allocations	18	<b>Total to consider for further allocations</b>	<b>25</b>	BK  NMBM
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10	<b>IMPROVING THE CONFIDENCE OF WATER AVAILABILITY</b>											
10.1	<p><b>Proposed water availability assessment study – Kromme and Kouga rivers</b></p> <p>EvdB reported on behalf of TMA. He stressed the importance of completing the V&amp;V for the Kromme and Kouga rivers, as the results are needed for the modelling of the long-term yields.</p>											
11	<p><b>WC/WDM Report on progress of other municipalities</b></p> <p>No discussion as no representative attended the meeting.</p>											
12	<b>REPORT BACK BY NMBM</b>											
12.1	<p><b>NMBM Drought measures and progress with implementation</b></p> <p>Water use in the Metro reduced from 340Mℓ/day to an average use of 266Mℓ/day. No further discussion.</p>											
12.2	<p><b>WC/WDM</b></p> <p>Real losses for the current year (Jul '17 – Feb '18) is 33.5%, with the February value down to 22.3%. The current WC/WDM focus areas are:</p> <ul style="list-style-type: none"><li>• Zoning,</li><li>• Pressure reduction,</li><li>• Meter replacement,</li><li>• Pipe replacement,</li><li>• Leak repairs,</li><li>• Contractor support.</li><li>• Recruitment of additional plumbers (13 recruited in the last 12 months).</li></ul>											

<b>12.3</b>	<b>Report on progress with WUE in schools</b> No discussion.	
<b>12.4</b>	<b>Nooitgedagt Low-Level Scheme: Implementation and Financing</b> ML reported that the contractor has not been paid in February and March and has left the site. They were off-site for a month, but has now commenced with the work. The budget poses an issue as the construction programme is over 2 years, but the budget is spread over 3 years. It means that penalties will be incurred. An excellent contractor and good PSP were appointed, but funding is an issue at this stage. ML will write a letter to Amatola water to raise this concern.	ML
<b>12.5</b>	<b>Desalination of Sundays River irrigation return flows</b> EvdB indicated that there has been a request for the PSP to conduct a high-level pre-feasibility evaluation of this potential scheme as part of this study. He mentioned that this task was added to the list of ad-hoc tasks, from which a selection will be made of the ad-hoc tasks to take further. Additional water quality data in the lower Sundays River is however urgently needed.	AL
<b>12.6</b>	<b>Re-use of water treated to industrial standards – Fishwater Flats and Coega WWTWs</b> The scheme will not be developed further until there is sufficient demand from the Coega SEZ. No further discussion.	
<b>12.7</b>	<b>NMBM Coega Kop implementation</b> Dr Ricky Murray (RM) from Groundwater Africa attended this part of the meeting to give an update on the groundwater situation. He reported that DWS approvals for some infrastructure work is still outstanding. The approvals are needed by the beginning of July to start the drilling of production boreholes as per the programme. The target yield is difficult to determine, but RM expects a yield of ~10-14Ml/day. This could potentially be adequate water for the Coega area. A treatment works to remove iron and manganese will be constructed in parallel.  RM stated that, to know more about the yield, quality etc. of the Coega Kop groundwater scheme, he would like to test-pump the water for a significant time. He wanted to route the water through the storm water canals into the Swartkops River. The legality and approvals needed to do this need to be determined by DWS, CDC, NMBM and DEDEAT, who agreed to address this.	PC/GT /BM/ JG
<b>12.8</b>	<b>Other groundwater studies</b> RM reported that groundwater, that has been sited during the 2010 drought, is now being drilled, e.g. at St Georges Park. RM is busy looking at all possible sites at the western part of the city.  Water has been found in the Churchill area. Exploration boreholes are currently being drilled. The Bushy Park area is now being revisited.  He mentioned that the Metro also sponsored groundwater sitings in other areas during the 2010 drought. In Oyster Bay, enough groundwater was found (drilled) to make the town self-sufficient. In Jeffreys Bay, 1.5 Ml/day was found. More boreholes are currently being sited in Jeffreys Bay. In Hankie, 1.1Ml/day was found, 10km from the	



	<p>town. The water is currently being tested.</p> <p>In Humansdorp, 0.9 Ml/day was found and more boreholes have been sited.</p> <p>The water quality in Patensie is not good. Boreholes were drilled at the Kouga Dam and water was found. The yield not high, but the water could possibly be used for Patensie. A pipeline will however be needed. In an emergency, the canal could possibly be utilised. PJ responded that, while there is water in the dam, the use of the canal will be possible, but if the dam is empty, the water will not reach Patensie. AL mentioned that there is a balancing dam to use if there is no water in the Kouga Dam.</p>	
<b>12.9</b>	<p><b>NMBM 60Ml/day Desalination Scheme</b></p> <p>No Progress. EvdB will investigate what information is still needed to complete the study.</p>	EvdB
<b>12.10</b>	<p><b>Marina Sea Salt desalination</b></p> <p>Marina Salt approached NMBM with possible potable water provision through their construction of a sea water desalination plant. 26Ml/day will potentially become available for usage. NMBM is currently investigating the contractual and legal implications of an agreement between the two parties, Marina Salt and NMBM. It appears that approval from the National Treasury / Minister is required. No further development yet.</p>	
<b>13</b>	<p><b>LOCAL SURFACE WATER DEVELOPMENT</b></p>	EvdB,
<b>13.1</b>	<p><b>Kouga Dam 'raising' and Guernakop Dam</b></p> <p>There has been a request for the PSP to re-evaluate this potential scheme at more detailed desktop level as part of this study as an ad-hoc task. There is uncertainty regarding the yield and more investigation is needed. This will be done as an ad-hoc task if there are sufficient funds available. A decision will be made shortly</p>	
<b>14</b>	<p><b>IMPACT ON YIELDS OF EXISTING DAMS: ECOLOGICAL RESERVE &amp; CLIMATE CHANGE</b></p>	
<b>14.1</b>	<p><b>Implementing the Reserve for existing dams</b></p> <p>No discussion. EvdB noted that a small climate change study is possibly needed.</p>	
<b>15</b>	<p><b>COMMUNICATION</b></p>	RZ
<b>15.1</b>	<p><b>News Release</b></p> <p>EvdB noted that the News Release will be released after the next Status Report in September.</p>	
<b>15.2</b>	<p><b>Webpage Update</b></p> <p>As there is no webmaster at DWS, the data will be given to the DWS Project Manager, who will need to update the data</p>	
<b>16</b>	<p><b>GENERAL</b></p>	
<b>16.1</b>	<p><b>Ad-hoc studies</b></p> <p>It was reported that there is expected to be between R2 million and R2.5 million saving on the lump sums provided for the study. The money could potentially be utilised for</p>	

	<p>relevant, important smaller tasks relevant to the AWSS. The following ad-hoc tasks can be considered:</p> <ul style="list-style-type: none"> <li>• Preparation of informative posters for capacity building (proposal provided),</li> <li>• Annual operating analysis for 2018/19,</li> <li>• Raising of the Darlington Dam,</li> <li>• Update of current land-use in prioritised catchments,</li> <li>• Pre-feasibility of the Desalination of Sundays River irrigation return flows,</li> <li>• Kouga Dam 'raising' and Guernakop Dam,</li> <li>• Assistance for development of scope of works for the Kromme/Kouga WAAS study,</li> <li>• Update of the long-term yield of the AWSS,</li> <li>• Sundays River canal refurbishment,</li> <li>• Climate change evaluation in support of the 2018 Status Report.</li> </ul> <p>Ad-hoc Tasks already concluded or in progress:</p> <ul style="list-style-type: none"> <li>• DHI: Reporting templates for water distribution efficiency,</li> <li>• Annual operating analysis for 2017/18.</li> </ul> <p>EvdB will distribute the developed list to all members in due course. The approval of the activities need to be urgently screened and approved, once provided.</p>	EvdB
17.	<p><b>NEXT MEETINGS</b></p> <p>The dates of the next meetings are given below.</p> <ul style="list-style-type: none"> <li>• SSC Meeting: Wednesday, 26 September 2018 @ 09h00</li> <li>• SMM (Feasibility) Meeting: Tuesday, 14 August 2018 @ 14h00</li> <li>• ATSG Meeting: Wednesday, 15 August 2018 @ 09h00</li> </ul>	
18.	<p><b>CLOSURE</b></p> <p>PC closed the meeting at 14h30, and thanked the members for their attendance and informed inputs.</p>	

#### APPROVAL OF MINUTES:

Project Manager: Mr T Makombe (DWS)      Signed: \_\_\_\_\_      Date: \_\_\_\_\_

Study Leader: Mr E vd Berg (Aurecon)      Signed: \_\_\_\_\_      Date: \_\_\_\_\_