



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Support to the Implementation and Maintenance of the Reconciliation Strategy of the Crocodile West Water Supply System

Minutes of the Study Management Team (SMT) Meeting, No. 8 at 08:00 on 5 May 2011, BKS Pretoria

1. WELCOME AND CONSTITUTION OF THE MEETING

In the absence of Mr. Tendani Nditwani, Mr. Pieter van Rooyen acted as Chairman and opened the meeting.

2. ATTENDANCE AND APOLOGIES

2.1 ATTENDANCE

An attendance register was circulated, as noted below:

Witek Jezewski	(WJ)	DWA: NWRP
Ockie van den Berg	(OvdB)	DWA: OA
Lerato Bapela	(LB)	DWA: WRPS
Koena Moabelo	(KM)	DWA: WUE
Rens Botha	(RB)	DWA: North West Region
Martha Komape	(MK)	DWA: Limpopo Region
Johan Rossouw	(JDR)	BKS
Hermien Pieterse	(HSP)	BKS
Pieter van Rooyen	(PGvR)	WRP
Steven Shibambu	(SS)	DWA: Limpopo

2.2 APOLOGIES

Tendani Nditwani	(TN)	DWA: NWRP
Lebo Mosoa	(LM)	DWA: WRPS WQ
Allosius Salagae	(AS)	DWA: WRPS – E&ES
Hannes Pretorius	(HP)	DWA: Infrastructure Branch
<i>Trevor Coleman</i>	<i>(TC)</i>	<i>Golder</i>

2.3 ABSENT

Bernie Badenhorst	(BB)	DWA: Limpopo Region
Thokozani Ntuli	(ThN)	DWA: Water Ecosystems - groundwater
Allestair Wensley	(AW)	DWA: Water Services

ACTION

Barbara Weston (BW) DWA: RDM
Smangele Mgquba (SM) DWA: Climate Change

** Non-permanent members are indicated in italic & bold.*

HSP stressed the importance of replying on the meeting invitation and parking request.

All

3. APPROVAL OF THE AGENDA

The Agenda was approved, with the following additions:

- Item 8.1: MCWAP funding appraisal
- Item 8.2: Coordination with other studies

4. MINUTES OF PREVIOUS MEETING

4.1 APPROVAL

The minutes of the previous meeting was approved without changes.

4.2 MATTERS ARISING (NOT DISCUSSED IN THE ITEMS BELOW)

All matters arising are discussed below.

5. RECURRING TASKS

5.1 TASK 2: PROJECT MANAGEMENT – WORK PROGRAMME

5.1.1 Matters arising

- (a) **Item 6.1(b) of the previous minutes:** The work programme was distributed in PDF format with the progress report.

5.1.2 Progress

- (a) HSP reported that progress was according to the distributed programme, with the main focus on the completion of the WQT, results to be ready for discussion at the next SSC.

5.2 TASK 3: LIAISON AND INFORMATION DISSEMINATION

5.2.1 Matters arising

- (a) **Item 6.2(c) of the previous minutes:** The progress report that was distributed to all SSC members, is posted on the DWA website.

5.2.2 Progress

- (a) All the presentations made at the SSC on 24 February 2011 were posted on the DWA project website.

5.3 TASK 4: STAKEHOLDER ENGAGEMENT AND ADMINISTRATION

5.3.1 Matters arising from previous meeting

Item 6.3.2 of the previous minutes: OvdB reported that Johan van Rooyen and TN represented DWA at the meeting of 19 February 2011 with the farmers along the Limpopo River, to discuss the transfer of water to and developments at Lephalale. The latest information on the MCWAP and the use of surplus water from the Crocodile West River were well received by the farmers. The farmers requested a site visit to the coalmine at Lephalale.

TN

5.3.2 Progress

- (a) The next SSC Meeting is scheduled for 29 September 2011.
- (b) Based on better attendance of the previous SSC meeting, it was agreed that the next SSC will be also held in Pretoria. A venue with adequate parking will be selected.
- (c) 13 or 15 September 2011 was proposed for a dry run meeting, HSP to confirm with TN, Johan van Rooyen and Peter van Niekerk (who will probably chair the meeting).

HSP/AL

HSP/AL

6. TECHNICAL TASKS

PGvR referred to the Progress Report that was distributed prior to the meeting reporting on progress on all the tasks. Progress on Task 5 (Water Quality Model) was only updated later, therefore HSP will distribute a 2nd version of the progress report together with the minutes.

HSP

6.1 TASK 5: WATER QUALITY MODEL

6.1.1 Matters arising

- (a) **Item 7.1.1(c) of the previous minutes:** HSP will follow up with BW her request for the water quality objectives from LM.

Post meeting note: BW and LM will conclude this internally.

- (b) **Item 7.1.2 of the previous minutes:** A 1st draft motivation for a VO is being prepared on additional work requested, such as a 1st order water quality status assessment. The letter will be discussed with TN before finalisation.

PGvR/JDR

6.1.2 Progress

- (a) PGvR reported that the water quality task team will use existing information and report on the assumptions made due to lack of better data/information.
- (b) PGvR reported that the water quality calibration for one of the sub-systems (Upper Crocodile) will be completed by the end of the current week, to be included in the WRPM. PGvR and Jonathan Schroder will deal with the WQT inclusion in the WRPM.

PGvR

6.2 TASK 6: WATER RESOURCES PLANNING MODEL

- (a) PGvR briefly reported back on the progress as per WRPM task in the progress report.
- (b) He referred to the request to analyse the 2005 scenario for the irrigation supply downstream of Makoppa. This will be done and results will be presented at the next SSC Meeting.

JDR/JS

6.3 TASK 7: DEVELOPING OF OPERATING RULES

6.3.1 Matters arising

- (a) **Item 7.3(b) of the previous minutes:** All contractual matters were resolved for the *Crocodile West Annual Operating Analysis Study*.
- (b) **Item 7.3(c) of the previous minutes:** OvdB previously requested the implementation of a river management system through a real time model, since the Crocodile West River will be used as a conveyance system in the MCWAP augmentation system. This request should be motivated and included in the updated Reconciliation Strategy Report.

PGvR

6.3.2 Progress

- (a) JDR referred to a report on the losses in the system that was done by G Basson as part of the MCWAP. JDR to follow up with SC Vogel (Aurecon).

JDR

6.4 TASK 9: RECONCILIATION STRATEGY REPORT UPDATE

6.4.1 Matters arising

- (a) **Item 7.4.1(a) of the previous minutes:** JDR to follow up with BW on the water use volumes linked to the licence applications.
- (b) **Item 7.4.1(b) of the previous minutes:** Summarising the groundwater information from the All Towns Study per catchment and comparing it with current assumptions in the Reconciliation Strategy Report is in progress.
- (c) **Item 7.4.1(d) of the previous minutes:** OvdB clarified that the preliminary Reserve determination for the Mokolo River was done, and based on information the irrigation releases will be sufficient to support the Reserve requirements. Together with this a monitoring programme should be implemented to observe the trends for the ecology, which will be used in future when the Reserve is reviewed. If these releases for the Reserve/irrigation are not adequate, more water should be released for the Reserve from Mokolo Dam, with the reduction of other allocations from the dam. This could then imply that the Mokolo River system need to be augmented from the Crocodile West River system.

JDR/BW

JDR

OvdB also expressed his concern about the risk of two power stations, generating 20% of the country's power, having a single water source. Therefore, augmenting from the Crocodile West River may be required to mitigate the risk. PGvR replied that this should be addressed in the operation of the system.

PGvR

- (d) **Item 7.4.2(b) of the previous minutes:** Either Klipvoor Dam or Roodeplaat Dam are considered for supplying water to the areas north of the Crocodile West River catchment in the Limpopo WMA.
- (e) **Item 7.4.2(c) of the previous minutes:** The pipeline route for future augmentation to these areas will also be considered in discussion with DWA: Water Services (Alistair Wensley).

Alistair HSP

X

6.4.2 Progress

- (a) RB mentioned that Magalies Water indicated that they require more water at the Klipdrift water treatment plant and at Vaalkop Dam. Tshwane Municipality also indicated the expansion of their Temba Water Treatment Plant and their intention to use the increase in the effluent return flows.
- (b) It is proposed to hold an integrated meeting with Magalies Water and Tshwane Metro to discuss the Apies/Pienaars River system. Proposed attendance is as follows: Magalies Water, Tshwane Metro, Madibeng Municipality, RB, BB, OvdB, TN, WT, the PSP team. Meet with RB prior to meeting to assess available information.
- (c) It is also proposed that the PDNA report be assessed prior to the proposed meeting, with a short write-up as background information. Draft assessment to TN/JvR.
- (d) When determining the water balance at different points in the system the water requirements should be broken up into smaller units in order to be able to report back accordingly.
- (e) JDR proposed that, in order to reduce the number of different scenarios to be analysed to a minimum, a "base" scenario should be analysed including the existing water requirements and existing allocations of water to the different users. The water balance at different points in the system should be determined accordingly. The impact of any additional water requirements of existing users, or new requirements to other users, can then be motivated (or declined) when comparing the calculated water balances with new or additional allocations/requirements.

HSP

JS/HSP

JDR

JDR

6.5 TASK 10: SUPPORT GROUP (SG) SUPPORT

No feedback.

7. ADDITIONAL TASKS

7.1 TASK 11: TASKS REQUESTED BY JOHAN VAN ROOYEN: WATER SECURITY

No comments were received on the draft report that was submitted to DWA. Ten additional copies of the report were given to Johan van Rooyen (D: NWRP).

7.2 TASK 13: SUPPORT TO MCWAP

This task has been completed. No comments were received on the report.

8. GENERAL

8.1 MCWAP FUNDING APPRAISAL

(a) OvdB reported that TCTA has invited funding agencies to fund the MCWAP. As part of the appraisal process, enquiries were raised about the implication of the project of existing water users, potential effects related to climate change as well as risk mitigation and management. OvdB requested support from the PSP to provide document of the following aspects:

- Documentation of the allocation calculations that were carried out for the compilation of the Supply Agreement.
- Description of the operating analysis relating to the release rules to supply the irrigation users and the ecology downstream of the Mokolo Dam.
- Document the current preliminary results of the Crocodile West Reconciliation Strategy Study as it was presented at the previous Strategy Steering Committee Meeting.

PGvR

PGvR

JDR

8.2 COOPERATION/LINKAGES WITH OTHER PROCESS

8.2.1 WCDM

- (a) PGvR referred to the report by Water for Africa on the status of WC/WDM, done for Paul Herbst (D: WUE). The implications of this report to be noted and included into the updated Reconciliation Strategy.
- (b) PGvR suggested a meeting with Paul Herbst (D: WUE) and Willem Wegelin to discuss these issues.
- (c) It was proposed that the municipalities in the Crocodile River catchment be invited to present their status and progress at the next SSC Meeting.

PGvR

HSP/AL


9. NEXT MEETING


The next SMT Meeting will be scheduled for 26th of July 2011 at 08:00 at BKS. This will be preceded by the PMM.

10. CLOSURE

The meeting was closed at 9:45

Minutes certified as correct and final


PSP Study Leader 2011-07-26
Date


Acting DWA Study Leader 26/07/2011
Date