

## Project (WP10587): Continuation of the Northern Planning Region All Towns Reconciliation Strategies

## Limpopo Province: STRATEGIES STEERING COMMITTEE (SSC) MEETING No. 02 MINUTES

Held at the Pietersburg Club, Polokwane, on 21 July 2015 at 10h00.

#### 1. WELCOME AND INTRODUCTION OF MEMBERS

- 1.1 Mr Tendani Nditwani, Department of Water and Sanitation (DWS), National Water Resource Planning (NWRP), welcomed all to the meeting and provided a brief overview of the water resources management areas in South Africa.
- **1.2** A hand-out pack was provided to each attendee that included the following:
  - Hard copy of the agenda for the workshop;
  - Hard copy of the Background Information Document (BID for this study);
  - Hard copy of the Strategies Steering Committee (SSC) Terms of Reference;
  - · Hard copy print-out of the presentation; and
  - Compact Disc (CD) containing the prioritised, reviewed and updated strategies –
    for comment; District Municipality Summaries; presentation of the workshop; BID
    and SSC Terms of Reference.
- **1.3** Mr Nditwani requested members to introduce themselves, indicating the organisation they represent and their interest in this workshop.

#### **ATTENDANCE AND APOLOGIES**

**1.4** The attendance and apologies were noted. The attendance register is attached as **Appendix A**. It was noted that stakeholders attending this Limpopo Province SSC workshop reasonably represented relevant interest groups and their geographical distribution.

#### 2. ACCEPTANCE OF AGENDA

- **2.1** The agenda was approved by all present.
- **2.2** The proceedings for the Limpopo Province SSC 2, workshop were captured in the presentation, attached as **Appendix B**.

#### 3. PURPOSE OF THE WORKSHOP

3.1 The purpose of the workshop was to provide the background of the study; present the study methodology; outline the findings of reviewed and updated priority strategies; obtain comments and input from SSC members; outline the remainder of the study programme and lastly to discuss the way forward.

#### 4. ROLE OF THE STRATEGIES STEERING COMMITTEE (SSC)

4.1 Mr Nditwani discussed the role of the SSC. The SSC should provide executive guidance on the direction and outcomes of the study; furnish supplementary information during the review and update of the rudimentary strategies; establish lines of communication for information sharing; promote linkages to existing regional planning activities and ensure the incorporation of strategies' recommendations in formal planning processes (IDPs, WSDPs, Water Use License Applications, etc.). The SSC should furthermore promote the acceptance and signoff of the updated Reconciliation Strategies by the DWS and local government. The Terms of Reference of the SSC is attached in Appendix D.

#### 5. BACKGROUND OF THE STUDY

- **5.1** Mr Tendani presented the background of developing the first rudimentary All Towns strategies during 2008 2011 as well as the key findings of the study.
- 5.2 The current appointment (2012 till 2015) is the continuation of the All Towns studies and addresses the priorities that were identified during a screening workshop by the DWS (refer also in the presentation the criteria applied as part of the study methodology) and the first SSC held in 2013. The strategies' planning horizon has been extended from 2030 for the first strategies (2011) to 2035 for the revised/updated strategies (2014/15). The Background Information Document as distributed during the workshop is attached as **Appendix C**.

#### 6. UPDATING PRIORITY STRATEGIES: METHODOLOGY

- 6.1 Mr Colin Talanda presented the methodology applied for the review and update of the priority strategies during this assignment. He noted that one of the main differences between this phase and the first round of strategies that were developed (2011), was the availability of the 2011 Census information (only became available during 2013). This enabled refining of population counts and population growth projections for the cluster areas.
- 6.2 One of the key requirements for development of the reconciliation strategies is the availability of metered water use data. It was emphasised that very few municipalities have metered water abstraction and water use information, especially for groundwater use. Availability of metered water use data is also a critical element in the development of appropriate Water Conservation and Water Demand Management (WC/WDM) programmes.
- 6.3 The assumptions applied to determine water requirement scenarios (based on engineering principles and guidelines) for water service levels and growth scenarios were presented. The model made provision for various water use categories and anticipated development for different urban and rural areas in order to calculate the theoretical water requirements. Water requirements were calibrated where possible (where metered data exists) with actual water

use to present the likely current situation.

6.4 Water source quality was also considered during the review and update of the strategies.

#### 7. **UPDATED PRIORITY STRATEGIES**

7.1 The prioritised strategies reviewed and updated and presented at this workshop for the Limpopo Province are as follows:

District Municipality	Local Municipality	Stra	tegy		
	Greater Giyani	Giyani System A and B WSS Giyani System C WSS Giyani System D WSS Giyani System F1 WSS Giyani System F2 WSS	Combined Strategy: Giyani Cluster		
Mopani	Greater Letaba Greater Tzaneen	Sekgosese GWS Modjadjiskloof Scheme Thapane RWS Tours RWS Scheme			
	Ba-Phalaborwa Greater Giyani	Namakgale - Lulekani RWS Cluster Mapuve System N WSS			
Vhembe	Thulamela	Malamulele West WSS Malamulele West WSS Makhado Mapuve System RWS Lambani Thulamela Tshifudi RWS Nzhelele Thulamela RWS	Combined Strategy:  Malamulele West/Mapuve System N Cluster  Combined Strategy: Nzhelele		
	Makhado	Nzhelele Makhado RWS Makhado Middle Letaba RWS	Cluster		
	Musina	Musina			
	Blouberg	Senwabarwana GWS			
Capricorn	Molemole Polokwane	Molemole West Hout River RWS Moletje East RWS Moletje North GWS Moletje South GWS Olifants-Sand RWS Badimong RWS Laaste Hoop RWS Mankweng RWS Mothapo RWS Segwasi RWS Sebayeng-Dikgale RWS Boyne RWS Chuene Maja RWS Molepo RWS	Combined Strategy: Polokwane Cluster		

Some of the first round strategies were combined in order to reflect a more representative view of the water source, water reconciliation with water requirements and therefore the water balance.

#### 7.2 **DISCUSSIONS FOR CONSIDERATION**

7.2.1 Sekhukhune District Municipality (DM): Mr Talanda mentioned that the water balances of the 7.2.2 communities within the Sekhukhune DM were recently investigated as part of the Olifants

River Water Resources Development Project (ORWRDP) Phase 2 in order to determine the surface water augmentation requirements (De Hoop Dam). The information was incorporated into the DWS Continuation of the Olifants River Water Supply System Reconciliation Strategy. As a result there were no strategies prioritised and updated as part of the current All Towns Reconciliation Strategies' Study continuation phase.

#### **BREAK-AWAY GROUP 1: CAPRICORN AND WATERBERG DM**

7.2.3 Moletjie East RWS: Polokwane Local Municipality (LM) disputed that there is sufficient groundwater available and they are planning on augmenting supply to the area from the Olifants-Sands scheme. They have reports to confirm this and will supply them to the PSP for consideration.

PLM, PSP (31/07/2015)

7.2.4 It was requested add a recommendation in the strategy to consider investigating the option to extend the ORWRDP to the Mole-Mole West and Senwabarwana cluster areas.

PSP (14/08/2015)

7.2.5 Senwabarwana Cluster: Mr Mtileni mentioned that there is a bridging study for an Implementation Readiness Study (IRS) of an RBIG project that investigated options for supply from the Glen Alpine Dam. It was further mentioned that options to raise the dam and replace an irrigation canal with a pipeline to reduce losses were considered. Details to be provided to the PSP for consideration.

DWS, PSP (31/07/2015)

7.2.6 Molepo RWS: The Molepo Dam WTW is currently being upgraded from the existing 2.5Ml/d to 6 Ml/d.

PSP (14/08/2015)

7.2.7 Olifants-Sand – Polokwane Cluster: The water balance graph should be revised to reflect the future supply from the Olifants River in accordance with the scheduled dates when the relevant phases of the Olifants River Water Resource Development Project will be operational. Reference should be made (highlighted) that the Luvuvhu-Letaba and Olifants Reconciliation strategies are the primary source of information for this strategy.

PSP (14/08/2015)

7.2.8 Lephalale Urban: SSC members preferred that the water balance for this area focus on the Mokolo and Crocodile Water Augmentation Project (MCWAP) Phase 1 and not showing the balance with Phase 2 of the MCWAP.

PSP (14/08/2015)

#### **BREAK-AWAY GROUP 2: MOPANI AND VHEMBE DM**

- 7.2.9 It was reported that raw effluent from Thohoyandou WWTW is entering Nandoni Dam, and this issue needs to be addressed.
- 7.2.10Mr Danie Viljoen commented on the current drought conditions experienced in the province, such as affecting the Nsami Dam in the Middle Letaba catchment. Mr Nditwani emphasised the importance of responsible officials exercising the correct dam operating rules which will ensure sustained water supply to all types of users.
- 7.2.11Malamulele West and Mapuve System N RWS: The water source on the presentation to be corrected (changed from Chuene Dam to Middle Letaba Dam). There is an existing feasibility study for the Malamulele area which may assist in the review and update of the All Towns Strategies which Vhembe DM will provide.

VDM, PSP (14/08/2015)

7.2.12Lambani and Tshifudi Clusters: Clarity is required on the design capacity and water supplied (quantity and consumer areas) from the Xikundu Water Treatment Works (WTW).

PSP (14/08/2015)

7.2.13Nzhelele Cluster: SSC members made reference to the Coal of Africa Limited (CoAL) development in this area, impacting on water requirements and attracting people looking for employment opportunities. Mr Mtileni mentioned that an existing feasibility study for the area is being reviewed for an IRS of an RBIG project (a recommendation is the raising of Mutshedzi Dam). Mr Mtileni will make the existing feasibility study report available to the PSP for consideration.

DWS LP, PSP (14/08/2015)

#### 7.2.14 Musina Cluster

A question was raised on the population figures presented for this cluster.
 Mr Talanda clarified that the population applies to the cluster (water supply area) footprint only and not to the whole of the Musina Local Municipality.

VDM, PSP (14/08/2015)

 Ms Magwaza mentioned that the groundwater quality is Class 2 and would require treatment for human consumption. She committed herself to provide the supporting reports for the PSP to consider in the Strategy for this Cluster.

7.2.15SSC members were requested to participate in the Larger Reconciliation Strategy Steering Committee meetings as many of the water source issued raised today, are addressed in these meetings.

All

#### 8. REMAINDER OF THE STUDY PROGRAMME - PHASE 1

8.1 Ms M Esterhuizen provided the key activities for the remainder of the study programme. The main item is review and comments on the strategies distributed today on CD. Comments should be submitted by 14 August 2015 to Ms Esterhuizen (contact details in the presentation and BID). The PSP team would then review and consider the comments to incorporate into the Strategies and finalise the strategies for submission to: DWS Head Office, NWRP and the DWS Regional Office, Polokwane.

All (14/08/2015)

**8.2** Once the Strategies have been finalised, the District Municipality Summaries will also be finalised & submitted to the DWS for distribution to the municipalities and WSAs.

PSP, DWS (28/09/2015)

**8.3** The DWS is in the process of revamping their website and it is envisaged that the reviewed and updated All Towns Strategies, once finalised, will also be available on the website for downloading.

DWS (30/10/2015)

**8.4** The current study – Phase 1 – ends in September 2015 and the last Study Management Team meeting will be held on 16 September 2015.

#### 9. WAY FORWARD

9.1 Ms M Esterhuizen presented the way forward in terms of the continuation of the All Towns Study. It was emphasised that the Strategies be used during the municipal planning activities which include the review and update of the WSDP, IDP, project / needs development (irrespective of the funding stream) and water use licensing applications amongst other. Further more, the DWS in turn should use the Strategies when appraising new projects or

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water use licenses. It includes reviewing the implementation of WC/WDM activities.

- **9.2** The DWS identified priority areas for the development of in-depth reconciliation strategies and they are:
  - Olifants-Sand Cluster in Polokwane, Limpopo Province; and
  - Mahikeng Cluster in Mahikeng, North West Province.
- 9.3 SSC members are encouraged to continue engagement with the DWS on the content, outcomes and recommendations of the All Towns Study Strategies. The DWS would in due course start Phase 2 of the study.

#### 10. GENERAL

10.1 Mr Johann van Aswegen requested that the new Catchment Management Agencies be informed of this study and outcomes and that the Chief Executives be included in any future meetings or correspondence.

PSP, DWS (on-going)

#### 11. DATE OF NEXT MEETING AND CLOSURE

#### 11.1 NEXT MEETING

11.1.1Mr Nditwani indicated that the next meeting date would be communicated to SSC members.

#### 11.2 CLOSURE

11.2.1Mr Nditwani thanked all members for their attendance and participation and adjourned the meeting at 13:45.

Meeting notes compiled by Ms M Esterhuizen of UWP Consulting

#### APPENDIX A ATTENDANCE REGISTER



12				LPS	takeholder Attendance Register				
				5	SC Workshop 2 - 21 July 2015				
Organisation	Title	Surname	Name	Designation	Email	Tel	Fax	Cell	Signature
Agri Letaba	Ms	Roux	Naomi	Manager	info@agriletaba.co.za	015-307-2725	015-307-3509	082-941-4136	
Agri Limpopo	Mr	Enslin	Dries	Chairman	info@agrilimpopo.co.za	015-307-2725		079-494-6927	
COGTA: LP			Assigned Representative		-	015-295-3910	015 291 4784		
Department Human Settlement	Ms	Mbulaheni	Mashudu	Housing		015-284-5067	015-291-4646	015-284-5000	731
Department Human Settlement	Mr	Nelwamondo	Tshilidzi	Sanitation and Infrastructure	nelwamondot@coghsta.limpopo.gov.za	015-284-5347			and the second of the second o
Department of Mineral Resources	Mr	Kharivhe	AK	LP: Regional Manager	Aaron. Kharivhe@dmr.gov.za	015 287 4700	015 287 4706		. * *
Department of Water & Sanitation	Mr	Baloyi	Fidelis	DWA: LP - Planning Engineer	BaloyiF@dwa.gov.za	015- 290 1334		071- 482 4467	
Department of Water & Sanitation	Mr	Botha	Rens		bothar@dwa.gov.za	012-392-1308	012-392-1408	082-808-9560	
Department of Water & Sanitation AGRICULTUR	Mr E	Du Toit	Willem	Assistant Director: Groundwater	Dutoitw2@dwa.gov.za	015-290-1262	086-273-5400	082-808-6386	
Department of Water & Sanitation /X/R/(UFUR	Mr E	Gouws	Martinus	Manager CHIEF ENGINEER	gouwsmi@agric.limpopo.gov.za	015- <del>291-1551</del> CK+3579	015-295-5003/8754	0 <del>82-900-249</del> 0 CR Z ISI III 26	
Department of Water & Sanitation	Мг	Herbst	Paul	DWA: WUE	HerbstP@dwa.gov,za	012-336-7043		082-804-3002	
Department of Water & Sanitation	Ms	Hernandes-Maldonado	Allison	DWA: LP - Assistant to the Chief Director	allison.hm16032010@gmail.com	015 295 2295		082-8095604	1
Department of Water & Sanitation	Mr	Jezewski	Witek	Deputy Chief Engineer: Water Services Planning and Information	jezewskiw@dwa.gov.za	012-336-8160	012-336-8295	082-412-4737	to Gerent.
Department of Water & Sanitation	Ms	Komape	Martha	Director: Water Regulation and Use	KomapeM@dwa.gov.za	015-295-1463	015-295-3217	082-941-7965	
Department of Water & Sanitation	Mr	Maligana	Zwodangani Maxwell Maligana	Water Sector Support & Development	Maligana M@dwa.gov.za	015-290-1236	086 656 5088	082 809 0718	atto
Department of Water & Sanitation	Mr	Mannya	Mortimer	General Manager	mannyakcm@agric.limpopo.gov.za	015-295-7090	015-295-7046		
Department of Water & Sanitation	Mr	Marais	Stephen	Deputy Director: Planning	maraiss@dwa.gov.za	012-336-6650	012-336-6657	082-804-3147	
Department of Water & Sanitation	Mr	Moabelo	Koena		moabelok@dwa.gov.za	012-336-8174			
Department of Water & Sanitation	Ms	Mosoa	Lebo	NWRPS: WQ.	mosoal@dwa.gov.za	012-336 7564		082-885 1968	
Department of Water & Sanitation	Mr	Mtileni	Rexson	Director Water Sector Support	MtileniR@dwa.gov.za	015-290-1334	086-536-8705	082-329-0801	A. H.
Department of Water & Sanitation	Mr	Nditwani	Tendanì	Chief Water Resource Planner: NWRP (North) = (Northern Province and North West)	NditwaniT@dwaf.gov.za	012 336-8189	012-336-8295	082-888-5113	(Wolland)
Department of Water & Sanitation	Mr	Nyatio	Isaac	DWA: WRPS (System Operations)	nyatloi@dwa.gov.za	012-336-7582		082-805 6384	G 771
Department of Water & Sanitation		Raletjena	Moloko	WUE		012-336-6782			

Organisation	Title	Surname	Name	Designation	Email	Tel	Fax	Cell	Signature
Department of Water & Sanitation	Mr	Ramanga	Thomas Modisane	DWA: WRPS (System Operations)	ramangah@dwa.gov.za	012-336 7907			1
Department of Water & Sanitation	Mr	van den Berg	Ockie	Chief Engineer: Options Analysis (North)	VanDenBergO@dwa.gov.za	012-336-8613	012-336-7399	082-809-2011	Mely
Department of Water & Sanitation	Mr	Vorster	Sakkie	DWA: LP - Water Sector Support	vorsters@dwa.gov.za	015 295 8009		082 805-6498	
Dept. of Agriculture, Forestry & Fisheries (DAFF)	Ms	Gabriel	Mary-Jean	Director: Water Use & Irrigation Development	dwuid@daff.gov.za; mashegom@agric.limpopo.gov.za			082-555-8064	V
Dept. of Economic Development, Environment	Mr	Mongwe	Victor	Senior:Environmental Impact Management	MongweV@ledet.gov.za; ngoashengt@ledet.gov.za	015-295-4013/8648	015-295-4013	082-412-5605	Af0/097
Development Bank of Southern Africa	Dr	Ntsime	Patrick	North West Business Unit Manager	PatrickN@dbsa.org.za; KelvinM@dbsa.org	011 313 3525	011 206 3525		
Golder Associates	Mr	van Wyk	Eddie		EvanWyk@golder.co.za	011 254 4800		073 937 1045	
Komatiland Forest	Mr	Hollestein	Willem	District Manager: North	wilhemh@klf.co.za	015-305-3203	015-305-3445	083-282-2696	
Lepelle Water Board	Mr	Chuma	Darlington	Bulk water	darlingtonc@lepelle.co.za	015- 295 1898			
Letaba Vallei Boerevereeniging	Mr	van Coller	Chris	Secretary	chris@cvcpax.co.za	015-304-3064	015-304-3277	082-700-2307	
Letaba Water Users Association	Mr	van Rooyen	Louis	Chairman	livanrooyen@mweb.co.za; lwgv@absamail.co.za	015-345-1817	015-345-1783	083-627-6007	
Letsitele Irrigation Board	Mr	van Zyl	Frans	Secretary	fvz@worldonline.co.za	015-307-1204	015-307-1608	083-655-3423	
Levubu Vallei Boerevereeniging	Mr	Hoffman	Steven		27825657716@vodamail.co.za	015-583-0079	015-583-0079	082-565-7716	
Leydsdorp Farmers' Association	Mr	Verster	Arne	Chairman	adverster@wol.co.za	015-318-6084	015-318-6084	082-964-4214	
MISA LP	Мг	Nkuna	Aleck	Provincial Programme Manager	aleck.nkuna@misa.gov.za			079-494-0265	
Mondi Forests	Mr	Weber	Louis	Area Manager	stephan.crassord@debrockms.co.za	015-307-1324	015-307-1644	082-828-9601	
Northern Timbers (Pty) Ltd	Мг	Claasen	Sakkie	Company Manager	sakkiec@westfalia.co.za	015-305-3222	015-305-3167	083-628-3173	
Olifants River Forum	Mr	Nel	Gawie	Department of Finance and Economic Development	gpnel@absamail.com	015-295-9300	015-295-5819	082-806-3104	
Olifants River Joint Water Forum	Ms	Brink	Ilma	Consultant	ilma.brink@bigenafrica.com	012-843-9031	012-843-9000		
Politsi GWS (Tzaneen Irrigation Board)	Mr	Bierman	Flip	Chairman	flipb@westfalia.co.za/charlottep@westfa lia.co.za	015-309-0083	015-309-0089	083-627-6845	
RBIG PM	Mr	Tloubatia	Lesiba Richard					079-778-2251	
SALGA	Mr	Masetshe	Tshepo	Infra. Manager	tmasethe@saiga.org.za	015 291 1400	015 291 1414		
Sand River Water Users Forum / Bertie van Zyl (Pty) Ltd	Mr	van Zyl	Philé	Member	Philezyle@gmail.com	015-395-8212	015-395-2092	083-627-8528	
Sedibeng Water	Mr	De Vos	FF	Manager NWReg: O&M	fdevos@sedibengwater.co.za	056-515-0200	053 474 0334	083 289 5752	
TAU SA North	Ms	Prinsloo	Wilma	Regional Manager (Acting)	wilma@ntlu.co.za	015-297-3749	086-618-0781	082-555-4553	
Duls	Mr	MPHRHELE	Solhe	PAI	mphahleletal	28 28	The state of the s		1 Halek

Organisation	Title	Surname	Name	Designation	Email	Tel	Fax	Cell	Signature
UWP	Mr	de Jager	Leon		leondi@uwp.co.za				Ann
UWP	Ms	Esterhuizen	Monja		monjae@uwp.co.za	012-424 9108			700
UWP	Mr	Makanza	Sylvester	Technician		015 291 1628			
Water Research Commission	Mr	Nomquphu	Wandile	Research Manager	wandilen@wrc.org.za	012-330-9069	012-331-2565	083-290-7243	
WRP	Mr	Mare	Manie		maniem@wrp.co.za	012-366-3496			
WRP	Mr	Talanda	Colin		colint@wrp.co.za	012-346-3496		084-555 8044	AL ,
WRP	Mr	van Rooyen	Pieter		PieterV@wrp.co.za	012-346-3496		082-321 3446	Kinds
222	Mr	van Staden	Antonie	Member	antonievanstanden@icloud.com			082-576-6355	PRESENT
	Mr	Mbanyane	Simon	Bulk water	simonm@lepelle.co.za	015 - 295 1800 / 1806			
	Mr	Schmahl	Carel	Genl Mngr: Operations	carels@lepelle.co.za; info@lepelle.co.za	015 - 295 1800			
Mopani DM WSA	Ms	Rammalo	Albertina	Head: Water Services	rammaloa@mopani.gov.za	015-811-6300	015 812 4301	0724945758	
	Mr	Maake	Tìm	Municpal Manager	tim@mopani.gov.za	015-811-6300	015-812-4301		
	Mr	Chabalala	R	Manager: Bulk Water O&M - Giyani	chabalalar@mopani.gov.za		015-8115937 / 015 812 4302	083-674 6595	
	Mr	Rashitanga	E	Manager: Bulk Water O&M - Greater Tzaneen	rashitangae@mopani.gov.za				
	Ms	Maluleke	R	PA - Dir Water Services	maluleker@mopani.gov.za	015-811 6300	015- 812 4301	073-655 6657	
	Mr	Ralulimí	Thibo	Dir: Water Services	rarulimit@mopani.gov.za	015-811 6300	015-812-2068	082-366 8651	
Greater Giyani LM	Ms	Moya	Lulu	Technical (Water) Director	Moyall@greatergiyani.gov.za / maluleker@mopani.gov.za	015-811-5500 / 015- 812 0644	015-812-2062	079-512-6462	
	Mr	Bamuza	Musa	Head: Town Planning Services	bamuzama@greatergiyani.gov.za / bamuzamusa@gmail.com	015-812-0258	086-767-0612	0739104541	
	М	Matebula		Technical Dir.			015-812-2068	083-717 5215	
Greater Letaba LM	Ms	Mashaba	T.G.	Municipal Manager	secretarymm@glm.gov.za	015 309 8738	015-309-8738	083 400 2490 / 082 849 1082	
	Mr	Molokomme	William	Director: Infrastructure Development & Plan	william@glm.gov.za	015-309-9246	015-309-9419	079-872-4192	
						015-874 0366			

Organisation	Title	Surname	Name	Designation	Email	Tel	Fax	Cell Sign	ature
Greater Tzaneen LM	Ms	Makoti	Dikeledi S	Engineering Services Director	makotids@tzaneen.gov.za / dina.botes@tzaneen.gov.za	015-307-8210	086-759-6337	O82 468 8028	
	Mr	Shilowa	Paradise	Manager: Water Services	paradise.shilowa@tzaneen.gov.za	015-307-8219	086-759-6469	079-905-9013	
	Mr	Mkhombo	Obby	Municipal Manager	obby.mkhombo@tzaneen.gov.za	015-307-8000	015-307-8049		
	Ms	Machumele	Maggy	Acting Community Services Director	maggy.machumele@tzaneen.gov.za	015-307-8000	015-307-8049		
Ba-Phalaborwa LM	Dr	Sebashe	SS	Municipal Manager	sebashe01@gmail.com; smithr@ba phalaborwa.gov.za	015 780 6302	086-645-3238		
	Mr	Chiloane		Director: Tech Services		015-780-6308			
	Mr	Mpharalala	Khathutshelo	Water & San	mpharalalak@ba-phalaborwa.gov.za; khathum04@gmail.com	015-780-6345	015-781-0726		
Maruleng LM	Ms	Ramothwala	Refilwe Jonath	Municipal Manager	nchabelengi@maruleng.gov.za	015 793 2409	015-793-2341		
	Ms	Sithole	Veronica		sitholev@maruleng.gov.za	015-793-2409	015-793-2341	876°L5258	
		Shivambu	Kulani		shivambuk@maruleng.gov.za	015-793-2341		073-156-6468	
					######################################				
Vhembe DM WSA	e AW	Magwaza		Manicipal Manager (Activity)	ramugumop@vhembe.gov.za	015-960-2000	015-962-1017	082.272-3238	
	M	Madimuter CAS CAS	R.	General Manager: Technical Services	nadimutsar@vlieffibe.gov?za	015-960-3500 / 2000	086-544-5885		
	Mr	Masakona	Eric (not sure what T is for in e- mail, but #342) # \ W	Manager: Water Services Planning	masakonat@vhembe.gov.za; bmwericwater@yahoo.com	015- 960 2018	086-544 5885	082-453 6484	
	Mr	Mahwasane	Johnson	Water Demand	A Charles of CM			083-256 6657	
	Messessia	o Bologo		water mulamela tivi area	hologol@vhembe.gov.za			Q <del>QQ-414-05</del> 81	
		Thirtengwa	N (Freddy, Frederick)	Water Services Manager / Technical Services	tshivhangwan@vhamba.gov.za		•	979-7764628	
Musina LM	MS	Denyake	Tsweni	Deputy Manager: Technical Services	chuened@limpopo.co.za	015 534 6181	015-534-2513		
· ·	A April 1980	an tollowers with the second second	and a killing and a second	Mngr Tech Service	tropics of Court in 2 gov. 23	015-534-5190	086-619-3350		
		Matshili	Muofhe	Manager: Water Services	msnawater@limpopo.co.za	015 534 6100		079-693 3328	84
	Mr	Matshivha	Johnson	Municipal Manager	johnsonm@limpopo.co.za	015-534-6181		082-040-5343	

Organisation	Title	Surname	Name	Designation	Emall	Tel	Fax	Cell	Signature
Makhado	Mr	Mutshinyali	IP .		municipal.manager@makhado.gov.za; tshililom@makhado.gov.za	015 519 3003	015-516-5084		
	Mr	Tshivhula	Humbulani	Technical Services Manager	humbulanit@makhado.gov.za	015-519-3000	015-516-5084		
Santage Contract of the Contra	.M.	Thixhonali	Respect from the contraction of	Water Services Manager	thivhonalir@makhado.gov.za		destruction contents along a production of the second of t	082 901- 2873	
	Мг	Ragimana	Lufuno		LufunoR@makhado.gov.za				
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Mutale LM	Mr	MEMUDZI VIHA	M. M	Acting Manager: Technical Services	mpHephum@mutale.gov.za; tshifularol@mutale.gov.za	015-967-9600	015-967-9677	082 868 81K	Kaoc
	Mr	Mugeri	s	Water Services Manager	mugeris@mutale.gov.za			083-313 0587	
	Мг	Razwiedani	S	Municipal Manager	razwiedanis@mutale.gov.za				
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Thulamela LM	Minne	* \$40 this fall annual construction of the second construction of the secon	A CONTRACTOR OF THE PROPERTY O	Municipal Manager	mothirliomh@thulamela.gov.za; mudauni@thulamela.gov.za	015 962 7589	015-962-4020		
	Mr	Nepfumbada	N	Administrator	nepfumbadan@thulamela.gov.za	015-962-7500	015-962-6389		
	Mr	Muneri	Eric	Water Services Manager	munerime@webmail.co.za	015-962 7625/6		083-457 2205 / 082 453 6484	
	ME	Bereke / Bologo		Water - but working now for Vhembe DM	bologol@vnembe.gov.za	015-962-7500		'083-414 0581	
Capricorn DM WSA	Mr	Madisha	Klaas	Head: Water Management	madishak@cdm.org.za	015 294 1076/1144	015-291-4297	071 687 7023	
	Mr	Louw	F	Information Officer	louwf@cdm.org.za	015 294 1076	015 391 4297		
	Mr	Molokomme	Ngoako	Municipal Manager	molokommen@cdm.org.za	015 294 1076	015 391 4297		Resigned
		Mashangoane	Puleng	Strategy and Planning	mashangoanep@cdm.org.za	015 294 1076	015 391 4297		
AN AND AND AND AND AND AND AND AND AND A		Moropa	Joel	Infrastructure	moropaj@cdm.org.za	015 294 1076	015 391 4297		
Aganang LM	Mr	Selepe	Ramakuntwane	Municipal Manager	seleper@aganang.gov.za	015 295 1415	015 295 1447/1401		
	Ms	Leshilo	Patricia	Acting Senior Manager: Technical Services	pleshilo@aganang.gov.za	015-295-1408/52	015-295-1447/01; 086-536-4523	Ø726100293	Planto
	Mr	Mothapo	Isaac		imothapo@aganang.gov.za	012-295-1408/52/25	015-223-5281		
Blouberg LM	Mr	Kgoale	тм	Municipal Manager(Acting)	makgoshingp@blouberg.gov.za	015 505 7133	015 505 0296		

Organisation	Title	Surname	Name	Designation	Email	Tel	Fax	Cell	Signature
Andrews associated as the second as t	Mr	Modeba	Victor		morifim@cdm.org.za	015-295-1405		082-778-9070	
	Mr	Ratladi	Donald	Infrastructure Development	info@blouberg.gov.za	015-505-7100			
	Ms	Morapedi	Adeline	Economic Development and Planning					
Į.									
Molemole LM	Mr	Makhura	NK	Municipal Manager	makhuran@molemple.gov.za; semenyap@molemole.gov.za; lebepes@molemole.gov.za	015 501 0243	015-501-0419		
	Mr	Masipa	Donald	Senior Manager: Technical Services	masipa@molemole.gov.za	015 501 0243	015-501-0419	076-621-8132/	
774444	Ms	Ngoetjana	Tenìna / Benina	Water Services Manager	ngoetjanabp@molemole.gov.za	015 501 0243	015-501-0419	,	
Polokwane LM WSA	Mr	Muller	Tonie	Manager: Urban Water and Sanitation	toniem@polokwane.gov.za	015-290-2077	015-290-2106	Retire	<i>≥ ∆</i>
	Мг	Ramusetheli	Mushaisano	Water Services Manager	mushair@polokwane.gov.za	015 - 290 2194	015-290-2106	0823045850	All The second of the second o
	Ms	Mametja	Constance	Municipal Manager	constancem@polokwane.gov.za	015-290-2000	015-290-2106		
		Ralefatane	MJ	Water and Sanitation	samm@polokwane.gov.za	015-290-2000	015-290-2106		
Lepelle-Nkumpi LM	Mr	Ramaphakela	Jerry	Municipal Manager	theresho.lekgau@lepele-nkumpi.gov.za	015 633 4508	015 633 6896		
	Mr	Mapholo	Solly	Manager: Water Services	pmnchabeleng@cdm.org.za	015 633 4500	015 633 6896	082-778-9018	
POMPH TO SERVICE A SERVICE	Mr	Rametsi	Boitumelo	Manager: Technical Services	boitumelo.rametsi@lepelle nkumpi.gov.za	015 633 4500	015 633 6896		
Waterberg DM	Mr	Mabotja	Mpheta Samuel	Municipal Manager	ekelley@waterberg.gov.za; mmabotja@waterberg.gov.za	014 718 3321 / 3320 / 3300	014 717 2931		
		Lamola	KS	Manager: Infrastructure Development	klamola@waterberg.gov.za	014-718-3317	014-717-3225		
	Mr	Sole	Leonard	Planning and Economic Dev.	lsole@waterberg.gov.a	014-718-3886	014-717-3886		
	Ms	Makgata	Regina	Infrastructure Development	rmakgata@waterberg.gov.za	014-718-3886	014-717-3886		
Thabazimbi WSA	Mr	Klabadira	Billy	Head: Water services	venterj@thabazimbi.gov.za; tihabadirase@thabazimbi.gov.za	014 777 1902	014-777-1531	072-848-5942	
	Мг	Booysen	Cornelius	Municipal Manager	booysencg@thabazimbi.gov.za	014 777 1525 x 155	014-777-1697		
							1		

Organisation	Title	Surname	Name	Designation	Email	Tel	Fax	Cell	Signature
Lephalale WSA	Mr	Mabotja	Frans	IDP Officer	frans.mabotja@lephalale.gov.za	014 763 2193	014-763-5662	078-381-7465	
	Mr	Motebele	Khoroshi	Manager:Strategic Planning	khoroshi.motebele@lephalale.gov.za	014 762 1479			
	Mr	Leseka	Andrew	Infrastructure Services: Sanitation	kabelo.leseka@lephalale.gov.za	014 762 1466	086-587-8790		
	Ms	Shiko	April	Water Services	april.shiko@lephalale.gov.za	014 763 2193	014-763-5662		
		Tlhako	Kgabo	Infrastructure Services	kgabo.tlhako@lephalale.gov.za	014 763 2193	014-763-5662		
3									
Mogalakwena WSA	Mr	Hokomane	P	Head: Technical Services	hokomanep@mogalakwena.gov.za	015-491-9622	015-491-9638	083-682-8110	
	Mr	Selepe	PP	Municipal Manager (Acting)	ngoepeh@mogalakwena.gov.za	015-491-9707	015-491-9655		
	Mr	Letsoalo	Mokopane	Developemental Services Manager	letsoalom@mogalakwena.gov.za	015-491-9661	015-491-9792		
	Mr	Malepa	D	Acting Manager: Technical Services	malepad@mogalakwena.gov.za	015-491-9603	015-491-9754		
Mookgopong WSA	Ms	Katjedi	Rosat	Manager: Technical Services (Acting)	katjedimr@yahoo.com	014-743-6626	014-743 2434	082-466-4608	
		Magana	w	Acting Manager: Technical Services		014-743-6600	014-743 2434		
		Sebola	ОР	Acting Municipal Manager	admin@mookgophong.gov.za	014-743-6600	014-743 2434		
Modimolle WSA	Mr	Chokolo	Maphola	Manager: Water Services	mphoc@hotmail.com	014-718-2056	086-515-2106	083-377-9543	
	Mr	Mambo	NS	Municipal Manager	ajordaan@modimolle.gov.za; nmambo@modimolle.gov.za	014-718-2056			
	Mr	Sikhwivilu	N	Technical Services	nsikhwivilu@modimolle.gov.za	014-718-2056			
Bele-Bela WSA	Mr	Maluleke	Morris	Municipal Manager (Acting)	munmanager@belabela.co.za; malulekaa@belabela.gov.za	014 736 8052	014-736-8087		
	Mr	Nyambeni	Nicholas	Divisional Manager: Technical Services	nyambenin@belabela.gov.za; sekgalehj@belabela.gov.za	014 736 8052/38			0
	MV	Moloto	Jimmy	DM WATER/	molotojobelabel	082555	42866		Sun
Greater Sekhukhune DM WSA		Nkomo	Jaula	Manager: Technical Services	jabulankomo@gmail.com; sekinfo@sekhukhune.gov.za	013-262-7302	013 262 3688	082-552-7498	
	Mr	Thobela	NB		dialej@sekhukhune.gov.za	013-262-7534	086-273-9506		
	Mr	Mahlaule	Chris		c.sehlabelo@gmail.com	013-262-7572			

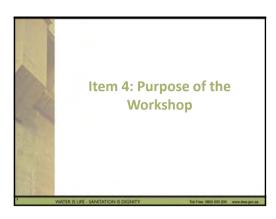
Organisation	Title	Surname	Name	Designation	Email	Tel	Fax	Cell	Signature
	Ms	Mokoko	Mapule	Municipal Manager	mapulef@sekhukhune.co.za; mphahlelel@sekhukhune.gov.za	013-262-7301	013-262-4303		
	Mr	Matiya	Amos	Director: Planning & Economic Dev.	matjiaa@sekhukhune.gov.za	013-262-7411		076-497-5067	
Maria Maria	Mr	Machava	Mpoti	Director: Water Services and Infrastructure	machavam@sekhukhune.gov.za	013-262-7302	013 262 3688		
Ephraim Mogale Local Municipality (was Greater Marble Hall)	Mr	Mashamba	NS	Municipì Manager	mashamban@emogalelm.gov.za; smakua@emogalelm.gov.za	013 261 8400	013 261 2985	082 411 7552	
	Mr	Rankwe	Donald	Manager: Technical Services	drankwe@emogalelm.gov.za	013-261 8449			
Elias Motsoaledi LM	Mrs	Maredi	Ramakgahlela	Municipal Manager (Acting)	lkabini@emlm.co.za; mmtsweni@emlm.gov.za	013 262 3056	013-262-2547		
	W 9444	Mohlamme	В	Water Services	bmohlamme@emlm.gov.za	013 262 3056	013-262-2547		
	Ms	Komape	RF	Director Infrastructure	rkomape@emlm.gov.za	013 262 3056	013-262-2547		
Makhuduthamaga LM	Mr	Segale	Obed	Manager: Infrastructure	albertsegale@gmail.com	013-265-8645	013 265 1076		
	Ms	Dilotsotloho	Tumelo	Manager: Technical Services (Acting)	tumelodilos@gmail.com	013-265-8645	013 265 1076		
	Mr	Mahlase	Polaki	Technical Services	pmahlase@gmail.com	013-265-8645	013 265 1076		
NAME OF THE OWNER O	Mr	Morebodi	Phamaga	Municipal Manager	info@makhuduthamaga.gov.za	013-265-8645	013 265 1076		
Fetakgomo LM	Mr	Matumane	Nkoane Danger	Municipal Manager	lebepem@fetakgomo.gov.za; motlanalol@webmail.co.za; mabelanem@fetakgomo.gov.za;	015 622 8000	015-622-8026		
Greater Tubatse LM	Mr	Mathunyane	M.S.	Director: Technical Services	msmathunyane@tubatse.gov.za	013-231-1169	013 231 7251		
	Mr	Molepo	Lekgau	Head: Planning & Development	lmolepo@tubatse.gov.za	013-231-1216	086-515-3522		
	Mr	Phala	Lemon	Municipal Manager	lphala@tubatse.gov.za	013-231-1000	013-231-7467		
LEDET	MR	Neva Shes	77149999	Manager	Mgogsherg TRO	P5290705	g D	08204/3	23 85
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DW5	Mr	MNDAWENT	SAKHILE	WRPS	@ gars-ton so	8764		083 654 34	
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Wayo Consulting	Mr	Burger	H.D	Wago	toys@wayoconsals	082859 <i>5</i> 44	3	OEZ 8595ZW3 PM	
AECOM	Mr.	VAHED	NASEEM	ENGINEER	ramulongo pe mattalanjeta toys@wonoconsaki, naseem.vahed@ aecom.com	072188155	<b>1</b>	0721881557	Will Co
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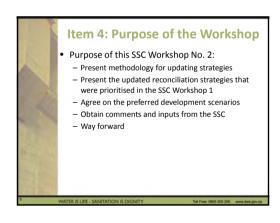
## APPENDIX B PRESENTATION: LIMPOPO PROVINCE SSC WORKSHOP 02









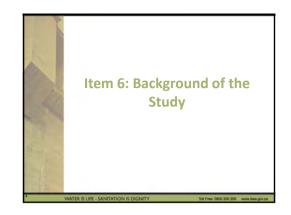




### Role of Strategies Steering Committee (SSC)

- SSC Terms of Reference (Information Pack)
- Provide executive guidance to the direction and outcomes of the study
- Provide supplementary information and input from a local and regional perspective
- Facilitate strategic linkages with other initiatives
- Disseminate information from the study to the relevant organizations
- Incorporate strategies' recommendations into development plans such as WSDP's, IDP's, Implementation Readiness Studies (RBIG), License Applications etc.
- To facilitate the acceptance and sign-off of the updated Reconciliation Strategies

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#### **Background to This Assignment**

- 2007: Development of Reconciliation Strategies for All Towns
- Key general messages from All Town Studies (2007-2011)
  - Improved management will solve largest portion of immediate problems
- Minimal metering (limited water use records)
- High per capita use in many towns pointing to WC/WDM potential
- Groundwater remains a feasible source of water for many towns
- Municipal infrastructure constraints rather than water resource availability limitations
- Rudimentary strategies improvement required

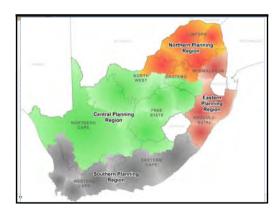
reduitientary strategies improvement require

#### **Background to this Assignment**

- 2012: Continuation of the DWS Planning Regions' All Town Reconciliation Strategies: Phase 1
  - Update and review priority strategies three year appointment (until 2015)

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#### **Purpose of Study**

- This assignment is the first review and updating of priority strategies
  - Budget constraints dictated that not all strategies can be reviewed and updated during this assignment
- On-going process even after these studies end
- Assist DWS and Water Services Authorities (WSAs) to:
- Update and revise priority strategies
  - To remain technically relevant and sustainable
- Reconcile water requirements and water resources (up to 2035)
- Identify areas requiring comprehensive Reconciliation Strategies

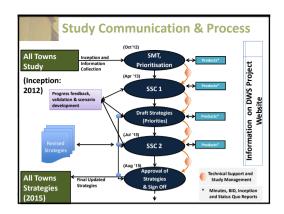
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#### Purpose of Study cont.

- Assist DWS and WSAs (cont.):
  - Evaluation of interventions where shortfalls occur
    - Management and/or infrastructure
  - Align strategies with known development planning processes
  - Provide recommendations for the sustainable management of water resources
- Promote the use of strategies' information in local, provincial and national planning environments

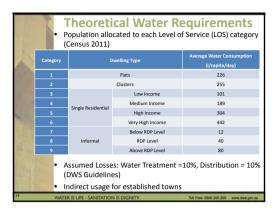
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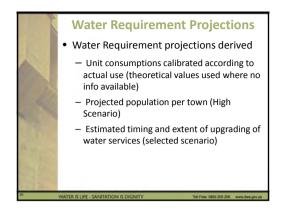


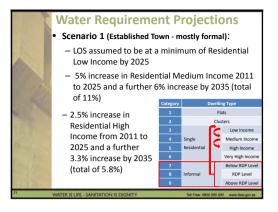
## Item 7: Updating Priority Strategies Methodology MATERIS LIFE - SANTATION IS DIGNITY MATERIS LIFE - SANTATION IS DIGNITY Material Temporary (1992)

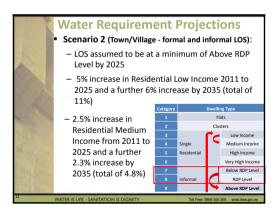


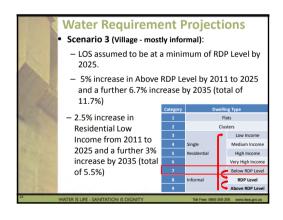


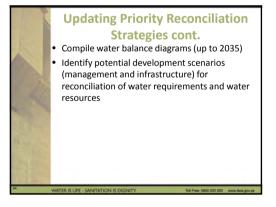


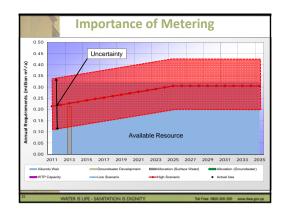




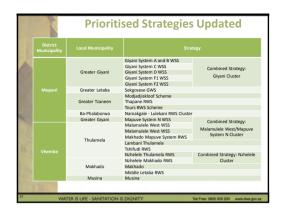


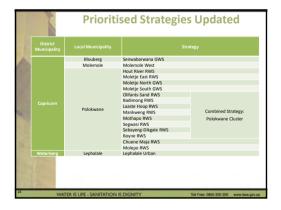














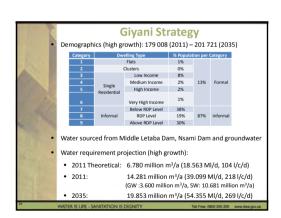


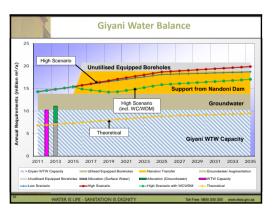


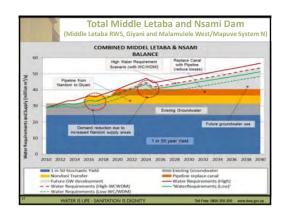


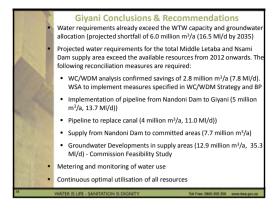








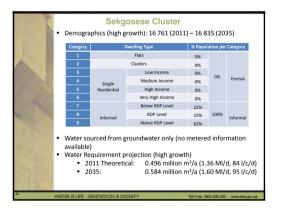


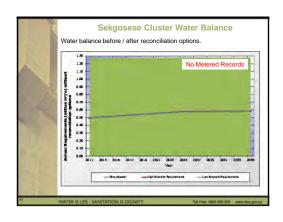


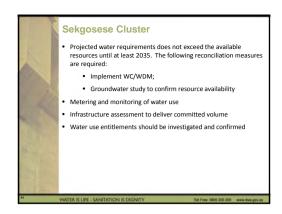








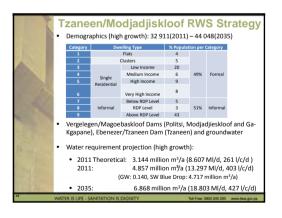


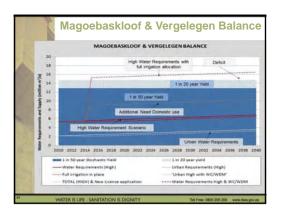


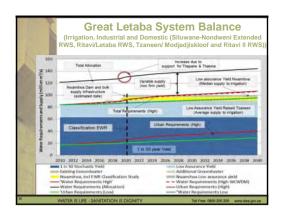


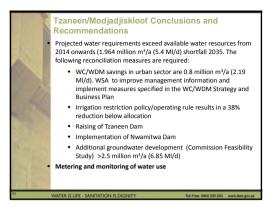


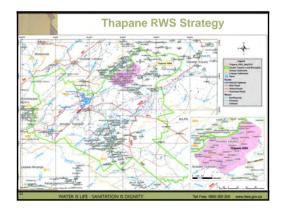


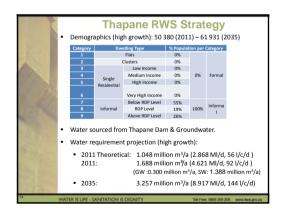


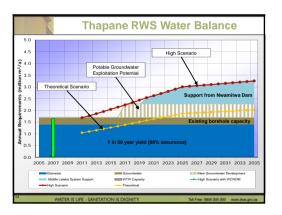








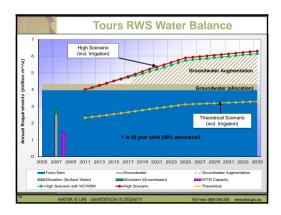


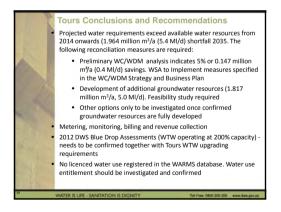


# Thapane Conclusions and Recommendations Projected water requirements exceed available resources from 2012 (shortfall of 1.557 million m³/a (4.3 Ml/d) by 2035). The following reconciliation measures are required: WSA to improve management information and implement measures specified in the WC/WDM Strategy and Business Plan Development of additional groundwater resources (0.584 million m³/a, 1.6 Ml/d). Feasibility study required Support from the Groot Letaba System 0.254 million m³/a (0.7 Ml/d) in 2035, once Nwamitwa Dam is commissioned (2020) Continuous optimal utilisation of all the existing water resources Metering, monitoring, billing and revenue collection No licenced water use registered in the WARMS database. Water use entitlement should be investigated and confirmed

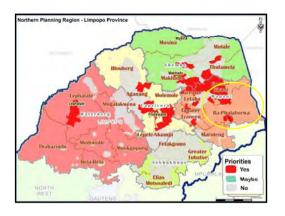


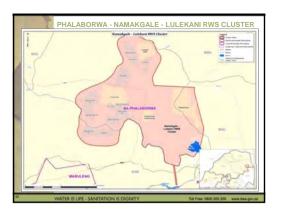


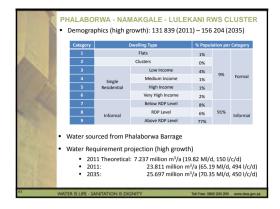


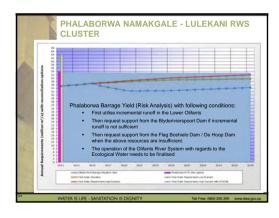


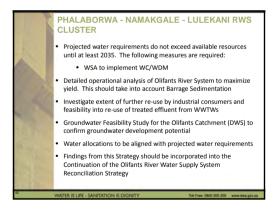






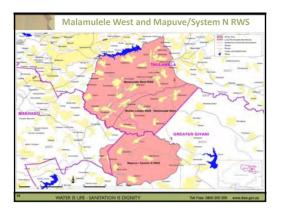


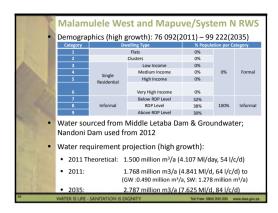


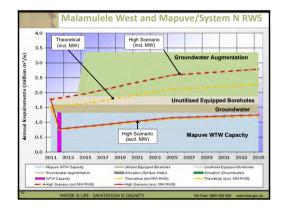


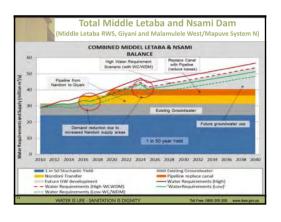




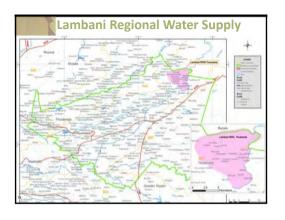


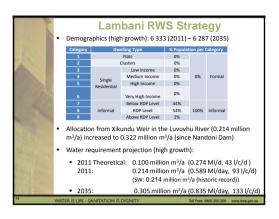


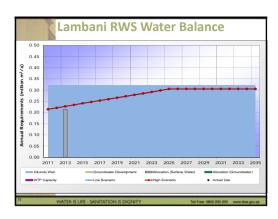




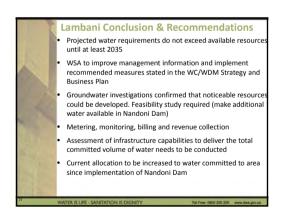
Malamulele West and Mapuve/System N RWS Malamulele West/Mapuve System N Cluster (excl. Malamulele West) water requirements do not exceed the available resources. The projected requirements for total Middle Letaba and Nsami Dam supply areas exceed the available resources from 2012 onwards. The following reconciliation measures are required: • WC/WDM analysis confirmed savings of 2.8 million m³/a (7.8 Ml/d). Implement measures specified in the WC/WDM Strategy and BP Implementation of pipeline from Nandoni Dam to Giyani (5 million m³/a, 13.7 MI/d) Pipeline to replace canal (4 million m³/a, 11.0 MI/d) Supply from Nandoni Dam to committed areas (7.7 million m³/a) Groundwater Developments in supply areas (12.9 million m³/a, 35.3 MI/d) - Commission Feasibility Study Metering, monitoring, billing and revenue collection Continuous optimal utilisation of all resources after support from Nandoni Dam

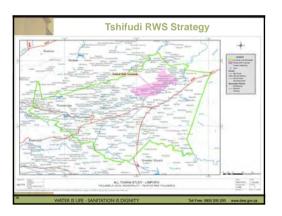


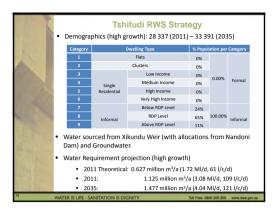


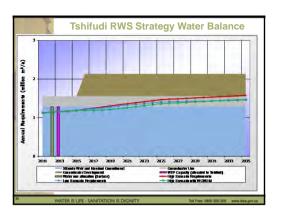


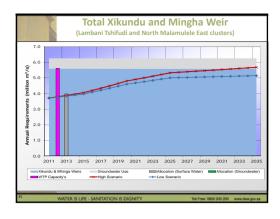


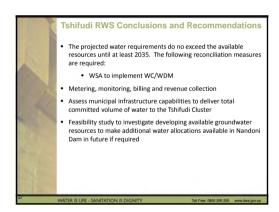


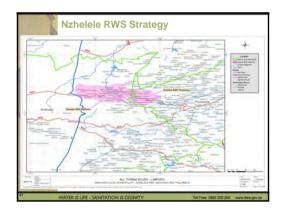


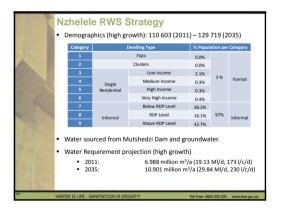


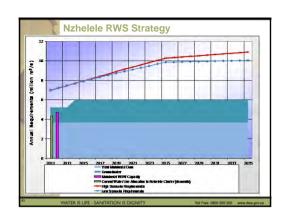


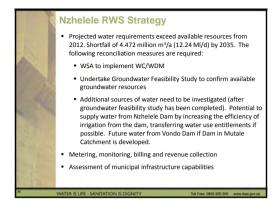




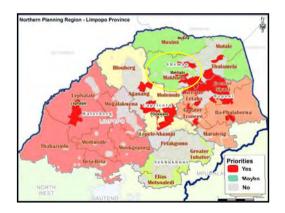




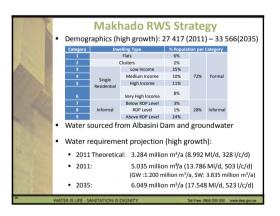


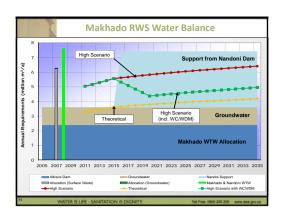


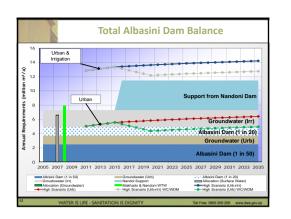


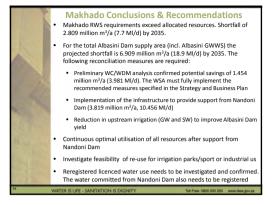




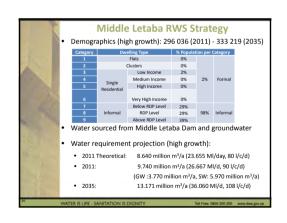


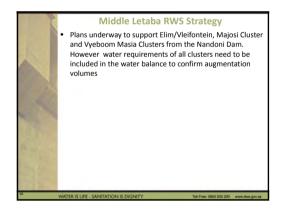


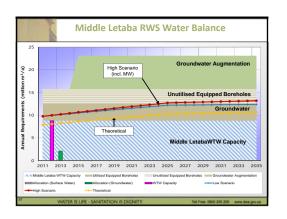


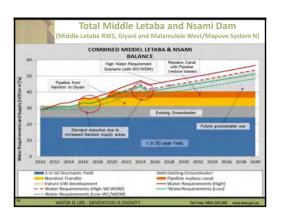


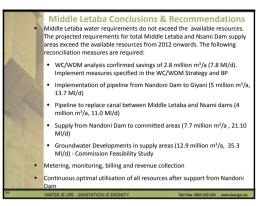








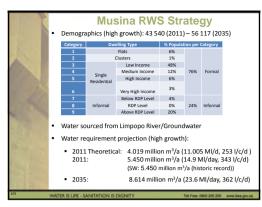


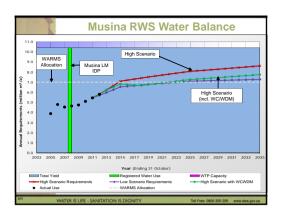


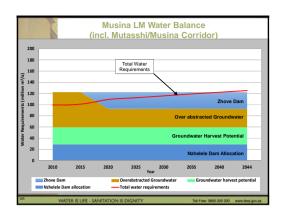








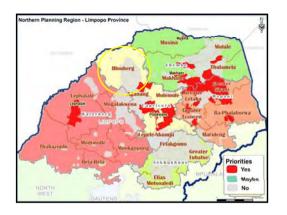




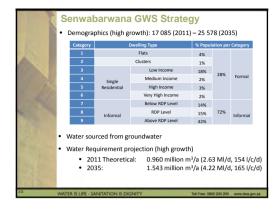


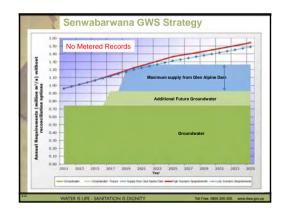








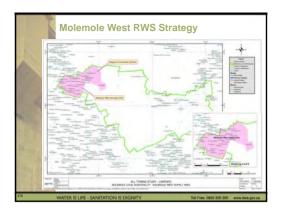


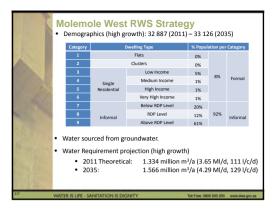


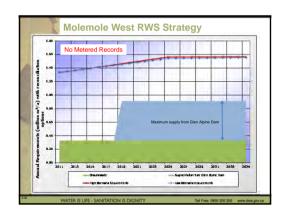


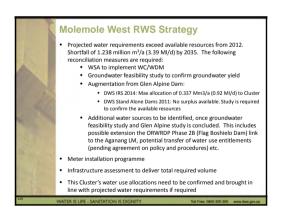








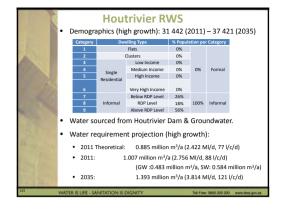


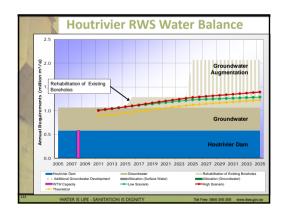


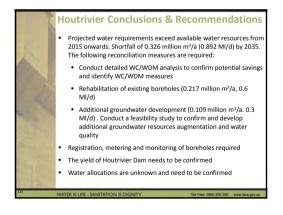




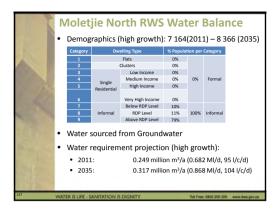


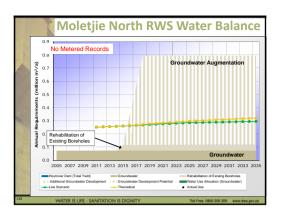




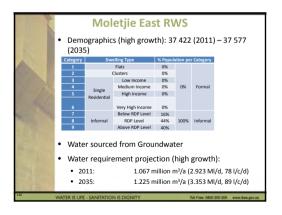


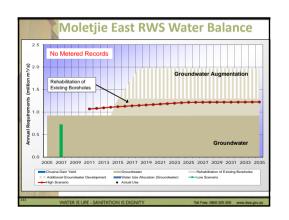




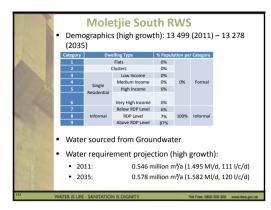


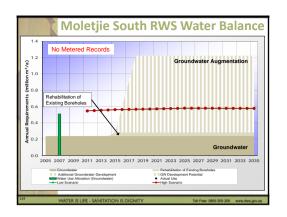


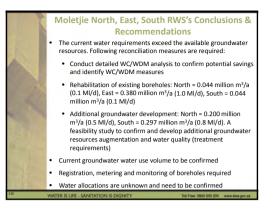




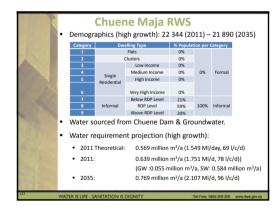


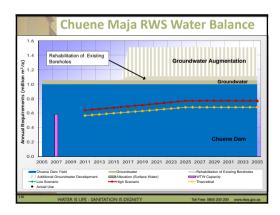


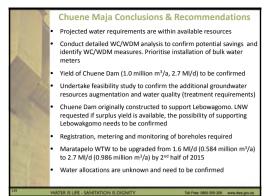


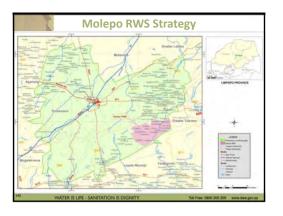


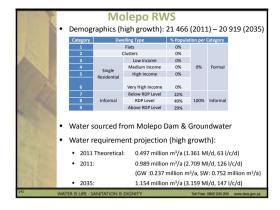


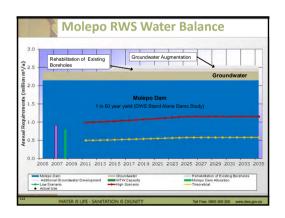




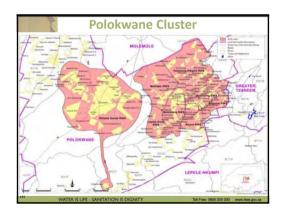


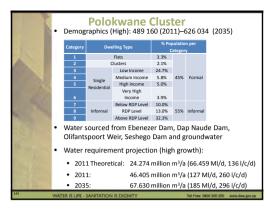


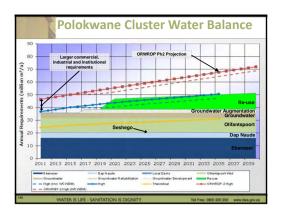


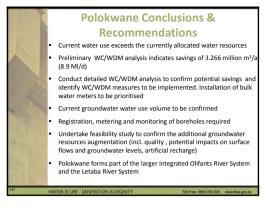




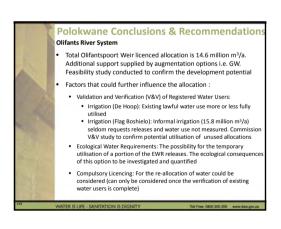








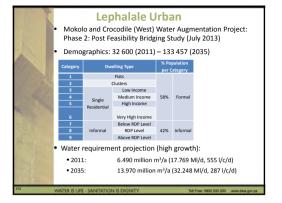
#### Polokwane Conclusions & Recommendation Letaba River System Current Dap Naudé licenced allocation (6.52 million m3/a) is not recommended due lower yield (HFY = 2.1 million m3/a) Historic average supply approx. 4 million m3/a Ebenezer Dam licenced allocation of 12 million m3/a not be increased above 16.2 million m3/a Factors that could further influence the allocation from the Letaba: Validation and Verification of Registered Water Users: In process but anticipated unlawful use to be minimal . Groundwater Development: LNW indicated substantial volumes of GW could be developed for users downstream of the Ebenezer Dam in exchange for an allocation from Ebenezer Dam. It is recommended that a feasibility study is conducted (incl. potential impact on base flows) . Compulsory Licencing: For the re-allocation of water could be considered (can only be considered once the verification of existing water users is complete)

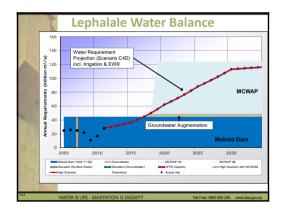


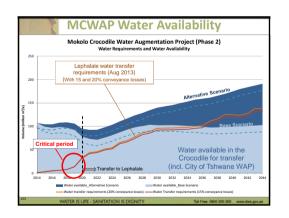


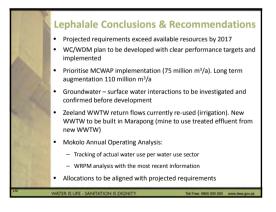


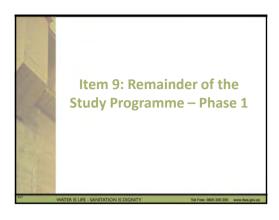


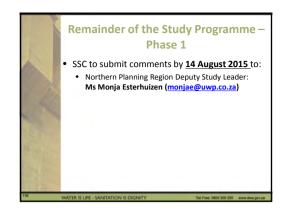




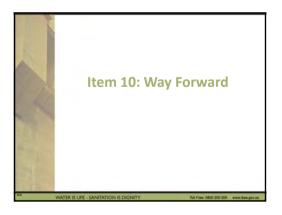




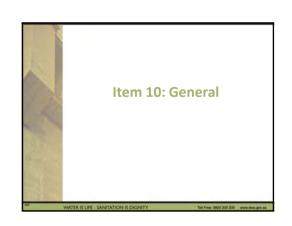


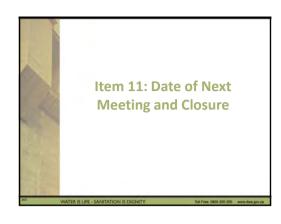
















## **Continuation and Maintenance of Reconciliation Strategies** for All Towns in the Northern Planning Region

#### **Information Document**

**June 2015** 



#### Purpose of this document

The purpose of this document is to provide an update of the study on the continuation and maintenance of water reconciliation strategies for towns in the northern region by the Department of Water and Sanitation (DWS).

document The provides background information, explains the rationale for the study and requesting participation from stakeholders to assist DWS to ensure enough water can be made available for all towns for the next thirty years.

As the Department wishes to follow a transparent process and include stakeholders as prescribed by the National Water Act of 1998, an extensive public engagement process will be followed. Part of this process involves establishing a Strategies Steering Committee (SSC) that is representative of sectors important to the study.

An SSC was established in 2013 in each of the Limpopo, Mpumalanga and North West Provinces.

The SSC is a voluntary body operating at a strategic level and ensuring that the technical aspect of the study is transparent, open and consultative and that cooperative governance is embraced.

Your organization is regarded as a key stakeholder in this process. We therefore have the pleasure to invite you to serve as a member of Northern Planning Region's All Town Reconciliation Strategies' Steering Committee and continue to participate in regional activities during the implementation of this study.

#### INTRODUCTION AND CONTEXT

The Department of Water and Sanitation (DWS) commissioned four three-vear studies for the continuation. The Northern Region study area is and maintenance of the bulk water supply reconciliation strategies for all towns in the country.

The studies cover the four Water Resource Planning Areas - North, South, East and Central and this study covers the Northern Planning Area.

These strategies were developed in 2011 and need to be revised to remain relevant under prevailing conditions. The study is part of an on-going A number of towns in this region are process to ensure sufficient water can be made available for pertinent developmental imperatives in and around all towns.

Although each town's strategy is different, key common themes were highlighted as listed below:

- Improved management will solve a significant portion of immediate problems.
- In the Northern Planning Region, the requirements water in 2010 exceeded water resources availability in 64 towns.
- Lack of water metering impedes the confidence in planning and the strategies.
- High per capita use in many towns points to the potential of saving through Water Conservation and Demand Management Water (WC/WDM).
- Groundwater remains a viable source of water for many towns.
- problems Supply relate to infrastructure constraints rather than water resource availability limitations in many towns.

#### Study Area

made up of the entire Limpopo Province, the north-west part of the North West Province and the northern parts of the Gauteng and Mpumalanga Provinces respectively. Please see the map for more detailed information.

The area covers eight Districts and one Metropolitan Municipality and 229 strategies separate town were developed.

supplied from Water Boards, which to a large extent, are already incorporated in the larger Reconciliation Strategies for the Vaal River (2009), Olifants River (2011), Crocodile (West) River (2012) and Luvuvhu and Letaba Rivers' (2014) Water Supply Systems respectively.

Documentation on these strategies is available on the DWA web page: http://www.dwa.gov.za/projects.aspx

> In brief, this study is a further endeavour to aspire to make the slogan, "some for all", to become a reality.

The intention is to continue the maintenance, review and implementation of the reconciliation strategies even after completion of this study and phase.

#### **OBJECTIVES OF THE STUDY**

The primary objectives of the study are to review and refine all strategies, identify priority or "hot spot" towns requiring full revisions and document the progress on how the recommended interventions (strategy actions) were implemented.

This is carried out in collaboration with the respective Regional Offices (ROs) in the Northern Planning Region. The ROs serve as the conduit through which the study team engage with the designated Water Service Authorities - either Local or District Municipalities.

A further key objective is to promote the reconciliation strategies as a core planning product giving the actions needed to secure the required water resources.

The vision is for the strategies to be considered and incorporated when other plans such as the Water Services Development Plans and Integrated Development Plans are developed.

#### **RECONCILIATION STRATEGIES: COMPONENTS**

Lessons learned from strategies being reviewed and implemented in other parts of the country identified the components shown in **Figure 1**, as the main elements to consider in a reconciliation strategy. At the centre of the diagram the questions regarding how much water is **needed**, what water resources are **available** or could be made available, and which **interventions** can be considered to achieve a balance between demand and supply should be answered.

The coloured boxes indicate how each question is answered by undertaking various investigations and synthesising the results of several processes to formulate the most suitable strategy for an area and plan to reconcile the water resources with the requirements.

The particular tasks and activities relevant to the Northern Region were identified from the generic complements provided in **Figure 1** and are presented in the following section.

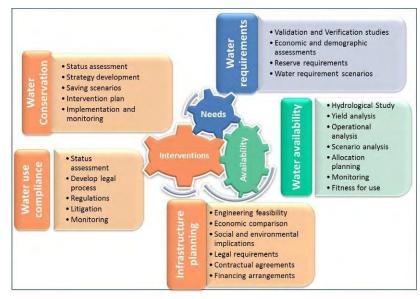


Figure 1: Reconciliation Strategies: Components

#### STUDY ACTIVITIES SINCE STRATEGY STEERING COMMITTEE WORKSHOP 1

# Preliminary Strategies Steering Committee Workshops

The purpose of this workshop was to confirm the strategies that were identified as priority strategies as part of the Inception Phase. The strategies were reviewed and evaluated on their completeness and preliminary priority towns were identified. The priority list was presented at the workshop and the final selection was confirmed.

#### Updating priority reconciliation strategies

This phase of the study encompassed the bulk of work required for the execution of this study, including the engagement of stakeholders, information sourcing, verification of data, modelling, evaluation of scenarios and determining of reconciliation measures. Typical activities involved in the updating of the prioritised reconciliation strategies included:

- Detailed assessment of the water requirements, demographics, service levels to derive future water requirement projections a planning horizon of at least 25 years (up to 2035).
- The status and impact of WC/WDM interventions within the relevant WSAs were evaluated and an assessment

- of potential target savings that can possibly be achieved through WC/WDM were estimated.
- Opportunities for water re-use were identified.
- New schemes such as RBIG or other grant schemes were incorporated in the intervention timeline.
- Potential gaps or inaccuracies in the surface and groundwater availability estimates will be identified and addressed.
- Water quality related planning activities that are necessary to improve and sustain the quality of the water resource in the prioritised areas where this is an issue, were identified.
- Compared water requirements with the water resources availability to confirm the water balances status over the planning period i.e. whether and when deficits/shortfalls occur.
- Identified development scenarios/options that can meet the long term water requirement projections for areas where shortfalls/deficits occur over the planning period with preference to utilising local resources first (groundwater, re-use etc.).
- The reconciliation strategies for supply areas that depend on the same water resource were combined

(where appropriate) in order to confirm the combined strategy and water balance situation.

The deliverable of this task is the updated reconciliation strategies for the prioritised towns.

# Second Strategies Steering Committee Workshops

The strategies were distributed to stakeholders and the Second Strategies Steering Committee workshops have been arranged for each of the provinces with the following objectives:

- To present the updated/revised strategies, to obtain comments, further guidance and agreement on the acceptability of the results.
- Agree on the preferred development scenarios and on the way forward for the compilation of the reconciliation strategies.

# Complete updating of reconciliation strategies

The reconciliation strategies will be completed and finalised through the following processes:

 Consider the comments received from the Second Strategies Steering Committee workshops and

- undertake further studies where possible, that are required to finalise reconciliation strategies.
- Update prioritised strategies with any additional/revised information received.
- Add any significant developments, augmentation options, etc., to any of the strategies. This is to provide descriptive text to indicate where the strategies are superseded.

Based on the above, compile the final reconciliation strategies and submit to DWS for approval.

#### Study termination

Once approved by DWS, the final priority strategies will be distributed to the stakeholders for signing off by the identified stakeholders.

All study reports and study deliverables will be finalised and submitted during this phase. The final strategies will be incorporated into DWS's database which will then be uploaded onto the DWS's website.

#### **Communication Enquiries**

General: contact Ms Leoni Le Roux, Tel: +27 (0) 12 424 9722, Fax: +27 (0) 12 460 4071 or e-mail: <a href="mailto:leonilr@uwp.co.za">leonilr@uwp.co.za</a>.

Technical: contact Ms Monja Esterhuizen or Mr Leon de Jager, Tel: 27 (0) 12 424 9709, Fax: 27 (0) 12 460 4071 or e-mail: monjae@uwp.co.za, leondj@uwp.co.za.

For more information on the study, visit the Department's website at: http://www.dwa.gov.za/projects.aspx

#### STRATEGY COMMENTS

The Strategy Steering Committee to provide comments on the distributed strategies by: **14 August 2015** 

Comments to be sent to:

Ms Monja Esterhuizen (Northern Planning Region Deputy Study Leader)

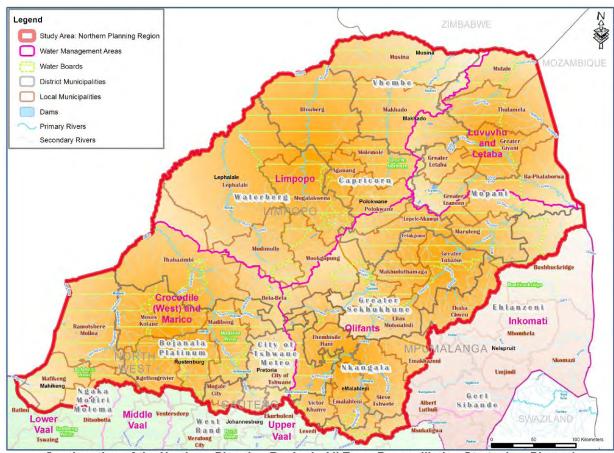
E-mail: monjae@uwp.co.za

### **PRIORITISATION PROCESS**

The steps that were followed by the study team to identify the preliminary priority towns are presented below:

- Step 1: Identification of Category 4 strategies (towns currently in deficit).
- Step 2: Eliminate towns where solutions are in an advance stage of planning or implementation (RBIG projects).
- Step 3: Add towns where RBIG or other processes are in an early stage of planning and can still be influenced by strategy recommendations.
- Step 4: Add any other hot spot areas identified on a national, provincial or local strategic level.
- Step 5: Final selection was confirmed at Strategy Steering Committee Workshop 1.

Province	Number of Priority Strategies
Gauteng	0 (part of the Larger Vaal Reconciliation Strategy Study Area)
Limpopo	38
Mpumalanga	6
North West	6
Total	50



Continuation of the Northern Planning Region's All Town Reconciliation Strategies: Phase 1

## **UDATED PRIORITISED STRATEGIES**

Whole of the Limpopo Province included in the DWS Northern Planning Region

LIMPOPO PROVINCE					
Province	District Municipality	Local Municipality	Strategy		
		-	Giyani System A and B WSS		
			Giyani System C WSS	Combined Strategy	
		Greater Giyani	Giyani System D WSS	Combined Strategy: Giyani Cluster	
			Giyani System F1 WSS	Giyani Ciustei	
			Giyani System F2 WSS		
	Mopani	Greater Letaba	Sekgosese GWS		
			Modjadjiskloof Scheme		
		Greater Tzaneen	Thapane RWS		
			Tours RWS Scheme		
		Ba-Phalaborwa	Namakgale - Lulekani RWS Cluster		
		Greater Giyani	Mapuve System N WSS		
			Malamulele West WSS	Combined Strategy:	
			Malamulele West WSS	Malamule West/Mapuve System N Cluster	
		Thulamela	Makhado Mapuve System RWS	Ciastoi	
			Lambani Thulamela		
	\/h amh a		Tshifudi RWS		
	Vhembe		Nzhelele Thulamela RWS		
			Nzhelele Makhado RWS	Combined Strategy: Nzhelele Cluster	
Limpopo		Makhado	Makhado		
шпроро			Middle Letaba RWS		
		Musina	Musina		
		Blouberg	Senwabarwana GWS		
		Molemole	Molemole West		
		Polokwane	Hout River RWS		
			Moletje East RWS		
			Moletje North GWS		
			Moletje South GWS		
			Olifants-Sand RWS		
	Capricorn		Badimong RWS	Combined Strategy: Polokwane Cluster	
			Laaste Hoop RWS		
			Mankweng RWS		
			Mothapo RWS		
			Segwasi RWS		
			Sebayeng-Dikgale RWS		
			Boyne RWS		
			Chuene Maja RWS		
			Molepo RWS		
	Waterberg	Lephalale	Lephalale Urban		

#### North West Province included in the Central and Northern DWS Planning Regions

NORTH WEST PROVINCE				
Province	District Municipality	Local Municipality	Strategy	
North West	Bojanala Platinum	Kgetlengrivier	Borolelo/Swartruggens	
			Koster & Reagile	
	Ngaka Modiri Molema	Mahikeng	Mahikeng	
		Ramotshere Moiloa	Dinokana	
			Motswedi Gopane	
			Supingstadt	
		Tswaing	Ottosdal	
	Dr. Ruth S. Mompati	Naledi	Stella	
		Greater Taung	Reivilo	
	Dr. Kenneth Kaunda	Tlokwe	Potchefstroom Urban	

## Mpumalanga Province included in the Central, Eastern and Northern DWS Planning Regions – the list below reflects the priorities as identified by the Central and Northern Planning Regions

MPUMALANGA PROVINCE				
Province	District Municipality	Local Municipality	Strategy	
Mpumalanga	Nkangala	Emalahleni	Emalahleni and Springvalley	
		Steve Tshwete	Middelburg	
		Dr JS Moroka	Ga-Ramantshane	
	Ehlanzeni	Thaba Chweu	Mashishing	
			Moremela	

## APPENDIX D SSC TERMS OF REFERENCE



# CONTINUATION AND MAINTENANCE OF RECONCILIATION STRATEGIES FOR ALL TOWNS IN THE NORTHERN PLANNING REGION

## Terms of Reference for members of the Study Steering Committee

#### 1. INTRODUCTION

The National Water Act (Act No 36 of 1998) requires consultation with "society at large" in the progressive development of water resource strategies such as the development of Reconciliation Strategies for All Towns in the four Water Resource Planning Regions (North, South, East and Central).

The institutional framework is one of the most important aspects of Integrated Water Resource Management (IWRM), because it determines the effectiveness of policy implementation. Institutions (statutory and non-statutory) are also important in that they are the focus for the Act's requirements to consult widely with water users and other interested persons before policies and strategies relating to the management and use of water resources are implemented.

Although there is no specific provision in the National Water Act for creating non-statutory forums, the experience of the Department of Water and Sanitation (DWS) is that these voluntary bodies have proved to be of great value in IWRM. Stakeholder groups have made significant contributions to water resources management at a local level, by providing essential local knowledge, expertise and information. In this respect the DWS expect Stakeholders to play an important role in the implementation of water resource management strategies.

In 2012 the DWS commissioned four three-year studies by appointing Professional Service Providers for the continuation and maintenance of the bulk water supply reconciliation strategies for all towns in the country. The studies cover the four Water Resource Planning Regions and this study covers the Northern Planning Region. The strategies were developed in 2011 and need to be revised to remain relevant under prevailing conditions. The study is part of an on-going process to ensure sufficient water can be made available for development initiatives in and around all towns.

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The primary function of the Study Steering Committee (SSC) will be to provide guidance to the direction of the outcomes of the Strategies and ensuring that the technical aspect of the study is transparent, open and consultative and that cooperative governance is embraced.

#### 2. OBJECTIVES

The objectives of the SSC are to:

- Provide executive guidance to the direction and outcomes of the study;
- Ensure that the various Strategies and their associated recommendations are appropriately communicated; and
- Ensure that the Reconciliation Strategies, after their development, are implemented.

#### 3. ROLES AND RESPONSIBILITIES OF THE STUDY STEERING COMMITTEE MEMBERS

The roles and responsibilities of the SSC could include the following:

- Members have to attend meetings of the SSC and make certain that they are well prepared for meetings. In the event that they cannot attend, a mandated representative may attend on their behalf;
- Provide executive guidance to the direction and outcomes of the study;
- Provide supplementary information and input from a local and regional perspective;
- Facilitate strategic linkages with other initiatives;
- Disseminate information from the study to their and other relevant organizations;
- Incorporate the strategies' recommendations into development plans such as WSDP's, IDP's, Implementation Readiness Studies (RBIG), License Applications etc.; and
- Facilitate the acceptance and sign-off of the updated Reconciliation Strategies.

#### 3.1 Scope of work in updating the Reconciliation Strategies

The primary objectives of the study are to review and refine the existing strategies, identify priority or "hot spot" towns requiring full revisions and document the process on how the recommended interventions (strategy actions) are to be implemented.

This is carried out in collaboration with the respective Regional Offices (ROs) in the Northern Planning Region. The ROs serve as the conduit through which the study team engage with the designated Water Service Authorities - either Local or District Municipalities.

A further key objective is to promote the reconciliation strategies as a core planning product giving the actions needed to secure the required water resources.

Appropriate integration with other planning and management processes, such as the Water Services Development Plans and Integrated Development Plans, as well as cooperation among stakeholder will be key success factors in formulating coherent recommendations and action plans.

The outcomes of the Reconciliation Strategies are specific interventions with particular actions needed to balance the water requirements with water availability through the implementation of regulations, demand management measures and infrastructure development options. Members of the SSC will actively participate in assisting to fulfill the scope of work in order to take ownership of the strategies and take up respective responsibilities for the implementation of interventions that will be identified.

#### 4. ARRANGEMENTS

The SSC of the Continuation and Maintenance of Reconciliation Strategies for All Towns in the Northern Planning Region is a study committee formed to ensure the development and implementation of the various town Strategies. Whilst the committee comprises representatives from national government, provincial government, local government and civil society the meetings will be facilitated and chaired by the DWS: National Water Resource Planning.

Two SSC workshops were planned with the purpose of each workshop summarized below:

- SSC Workshop 1 (held in April 2013):
  - Introduce the study;
  - Establish and define the role of the SSC;
  - Outline findings during the Inception Phase;
  - o Outline the scope of work, methodology, way forward and preliminary study programme; and
  - Prioritise the strategies to be updated.
- SSC Workshop 2 (this workshop):
  - Present methodology for updating strategies;
  - Present the updated reconciliation strategies prioritised at the SSC Workshop 1;
  - Agree on the preferred development scenarios; and
  - Obtain comments and inputs from the SSC.

The appointed Professional Service Provider to perform the following functions for the SSC:

- Send out invitations to the meetings;
- Organise the venue and catering;
- Assist with drawing up the agenda;
- Maintain a contact details database of all members; and
- Compile and timeously distribute the minutes of every meeting.