



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Directorate: National Water Resource Planning

Development of a Reconciliation Strategy for the Luvuvhu and Letaba Water Supply System

STUDY STEERING COMMITTEE – MEETING 3

Draft Minutes

DATE: Wednesday, 31 October April 2012

TIME: 09:00 – 13:20

VENUE: Tzaneen Country Lodge, Tzaneen

1.	WELCOME AND INTRODUCTION	ACTION
	<p><i>The Chairperson and Study Manager, Mr Tendani Nditwani (Department of Water Affairs– DWA) welcomed all members to the third meeting of the Study Steering Committee (SSC) for the development of the Luvuvhu and Letaba Water Supply System Reconciliation Strategy (LLRS).</i></p> <p><i>Mr Nditwani announced that consultative workshops are being held all over the country to discuss the second edition of the National Water Resource Strategy (NWRS). He invited all members on behalf of the DWA to attend the workshop planned for Limpopo on 21 and 22 November 2012. The first edition of the NWRS (NWRS-1) was published in 2004 and set out the 'blueprint' for water resources management in the country for the first time. This second edition (NWRS-2) sets out the strategic direction for water resources management in the country. Visit the NWRS website (http://www.dwa.gov.za/nwrs/NWRS2012.aspx) for more details.</i></p> <p><i>(All presentations will be sent out with the final set of minutes. Visit the study website http://www.dwa.gov.za/Projects/Luvuvhu/default.aspx for more information.)</i></p>	
2.	ATTENDANCE AND APOLOGIES	
	<p><i>The attendance register can be found at the back of this document.</i></p> <p><i>The following apologies were received:</i></p> <p><i>Peter van Niekerk, Integrated Water Resource Planning, DWA</i></p> <p><i>Johan van Rooyen, National Water Resource Planning, DWA</i></p> <p><i>Paul Herbst, Water Use Efficiency, DWA</i></p> <p><i>Jakkie Venter, National Water Resource Infrastructure, DWA</i></p> <p><i>WandileNomquphu, Water Research Commission</i></p> <p><i>Hanli du Plessis, Office of the Limpopo Premier</i></p> <p><i>Johan Kruger, Limpopo Department of Economic Development, Environment and Tourism</i></p> <p><i>ItumelengLedwaba, Mopani District Municipality</i></p> <p><i>PhungoyavhoMaginya, Mutale Local Municipality</i></p> <p><i>LabaneLeballo, LepelleNorthern Water</i></p>	

	<i>Hendrik Monama, LepelleNorthern Water MotlalepulaMphachoe, Lepelle Northern Water John Dini, South African National Biodiversity Institute Johan de Graaf, Northern Timber.</i>	
3.	MEETING OBJECTIVES	
	<i>Mr Nditwani reiterated the objectives of this study which are to address the growing water demand in the study area, identify serious water problems, identify resource development options, provide reconciliation interventions (structural and administrative/regulatory) and facilitate communication and strengthen the partnership between the DWA and key stakeholders.</i>	
4.	ACCEPTANCE OF AGENDA	
	<i>The agenda wasaccepted.</i>	
5.	APPROVAL OF MINUTES	
	<i>The minutes were approved with minor changes. Mr Ockie van den Berg (DWA) reminded the meeting that he was present at the last meeting, although his name does not appear on the attendance register.</i>	
6.	MATTERS ARISING FROM THE PREVIOUS MINUTES (SSC 2 ON 25 APRIL 2012)	
	<p><i>Items 6.1 to 6.11 have been included in Item 9 (Summary of possible intervention options).</i></p> <ul style="list-style-type: none"> <i>6.1. 8.a) Areas outside the WMA such as Makhado, and Polokwane must be considered part of the study area although located outside the catchments.</i> <i>6.2. 8.a) The Sand River must be added to the list of water resources.</i> <i>6.3. 8.a) Rain water harvesting must also be investigated as a potential water resource for the Vhembe district.</i> <i>6.4. 8.a) Water re-use must also be investigated for the study area.</i> <i>6.5. 8.a) The proposed dam site upstream in the Lutanandwa River should be moved downstream below the confluence with the tributary from Tshakuma Dam.</i> <i>6.6. 8.a) The planned developments in the Upper Luvuvhu Basin should also be included in this study.</i> <i>6.7. 8.b) Downstream from the proposed dam site on the Mutale River is a more suitable area to build a dam using the surrounding mountains that must be investigated.</i> <i>6.8. 8.b) The demand from the Limpopo communities and new mines within the Mutale Basin must be considered as possible users for identified dams in the Lower Mutale as the Limpopo River is in general not a good source of water.</i> <i>6.9. 8.d) Yield modelling must be done to see if the proposed Hobson's Choice Dam (GL4) is viable.</i> <i>6.10. 8.d) The Thabina River was investigated years ago for primary water use which can also be mentioned in this report.</i> <i>6.11. 8.d) The proposed pipeline from the Middle Letaba Dam to the Nsami Dam should rather be moved to the west of Giyani.</i> <i>6.12. 8.d) The slide of the proposed pipeline route to Nsami Dam must be corrected. (This was done).</i> 	

	<p>6.13. 10.) The Terms of Reference and summary of what is expected of SSC members must be presented on a slide for the next meeting along with a list of all SSC members. (Will be covered under Points 15 and 16).</p> <p>6.14. 10.) The Department of Rural Development and Land Reform must be invited. (This was done).</p> <p>6.15. 12.) Mr André Venter will send a document with surface and groundwater impacts on flow in the study area to Mr Pieter Van Rooyen. (This was done).</p>	
7.	STATUS AND RECAP SINCE THE PREVIOUS MEETING	
	Mr Nditwani presented the current status of the study. The next big step in this process is the Preliminary Reconciliation Strategy that will be discussed at the next SSC meeting during the second half of 2013.	
8.	PROGRESS ON STUDY TASKS	
	<p>Mr Manie Maré (Study Team) informed members of the progress made with the various tasks in the study broken down into:</p> <ul style="list-style-type: none"> • Tasks completed; • Tasks in process; and • Future tasks. 	
	Discussion	
8a	<p>Mr Jan Potgieter (Department of Agriculture, Forestry and Fisheries– DAFF) enquired if irrigation schemes and the various refurbishments done on these schemes have been included in the Inception Report?</p> <p>Mr Maré replied that irrigation is listed in the Inception Report, but it has not yet been studied. When irrigation will be studied, then all water conservation and water demand management options such as refurbishment will also be listed to possibly reduce water use. Mr Nditwani added that all available agricultural data (such as RESIS Programme) will be used to work out current irrigation use.</p>	
8b	Mr van den Berg reminded the meeting that the objective of this study is to investigate opportunities.	
9.	SUMMARY OF POSSIBLE INTERVENTION OPTIONS	
	<p>Mr Pieter van Rooyen (Study Team) presented possible intervention options that should cover at least the next 40 years planning horizon in the study area. Typical interventions could include:</p> <ul style="list-style-type: none"> • Water conservation and water demand management; • Optimal system operation; • Adjusting assurance of supply; • Trading of water use allocations; • Rainfall harvesting; • Water re-use; or • Augmentation schemes. 	
	Discussion	
9a	<p>Mr Louis van Rooyen (Letaba Water Users Association) wanted to know if there are any statistics available for the Nandoni Dam.</p> <p>Mr Nditwani estimates that Nandoni Dam would be delivering approximately 76 million m³/a of which approximately 67 million m³/a is already targeted for specific demand centres with around 5 million m³/a that must be transferred to the Middle Letaba and another two to three million m³/a destined for</p>	

	<p><i>Matoks. It is therefore clear that most of the water has already been accounted for. Water must also be released for the ecological reserve and users downstream of the Nandoni Dam.</i></p> <p><i>Mr Pieter van Rooyen cautioned that the hydrological task of this study must still be completed to confirm the figure of 76 million m³/a.</i></p>	
9b	<p><i>Mr van den Berg commented that the Ministerial approval for the Groot Letaba River Water Development Project also includes approval to raise the Tzaneen dam wall.</i></p>	
9c	<p><i>Mr Louis van Rooyen asked for more information regarding GL5 which is the artificial recharge on the Molototsi River in the Groot Letaba Catchment.</i></p> <p><i>Mr Pieter van Rooyen explained that there are aquifers that can be utilised. Mr van den Berg added that the DWA mentioned the possibility of a series of small dams to recharge the aquifers.</i></p>	
9d	<p><i>Mr van den Berg added that the Luvuvhu Letaba Water Supply System is a very complex system with a number of subsystems which are not linked at the moment. The DWA is investigating how these subsystems can be linked to avoid having a surplus in one and a shortage in a neighbouring system.</i></p>	
10.	DEMOGRAPHIC SCENARIOS	
	<p><i>Mr Russell Aird (Study Team) explained that population growth and future economic development as well as population distribution scenarios form the basis of determining the possible future water needs for a specific area. He approached this task by collecting, analysing and interpreting as much data as possible to form a baseline database with population and economic land use statistics. This was followed up with the development of growth scenarios after which modelling and a sensitivity analysis were done to provide future population and economic statistics for the next 40 years.</i></p> <p><i>Mr Aird assured members that the recently published results of Census 2011 will be used to update his information.</i></p>	
	Discussion	
10a	<p><i>Dr Thomas Gyedu-Ababio (Kruger National Park) commented that the people (officials and visitors) inside the Kruger National Park also need water and their populations will also increase in future and must, therefore, be included in this study. Mr Aird said they will be included.</i></p>	
11.	RAINFALL ANALYSIS	
	<p><i>Mr Manie Maré (Study Team) presented the recently completed rainfall data analysis report which used the Water Resources of South Africa 2005 Report (WR2005) as its main source of information.</i></p> <p><i>Some of the conclusions of this analysis are that the quality of the catchment rainfall records are acceptable to good in the western part of study area, while the eastern parts were fair to acceptable. In some catchment rainfall zones there were no rainfall stations within the zone. There has been a big decline in rainfall collecting points in the study area. Of the 96 stations evaluated in 2005, only 39 were still active in 2010.</i></p>	
	Discussion	
	<p><i>No discussions were needed.</i></p>	
12.	WATER QUALITY AND WATER RE-USE FEEDBACK	
	<p><i>Mr Trevor Coleman (Study Team) reported that most of the study area has water of very good quality based on the available surface water quality and point source discharge data in the study area were collated and assessed. The data from 62 water quality monitoring points were used.</i></p>	

	<p><i>Water quality concerns include:</i></p> <ul style="list-style-type: none"> <i>Elevated nutrient concentrations; in particular phosphorus in sections of the rivers downstream of urban areas and intensive irrigation areas;</i> <i>Bacterial pollution was also identified and raised as a concern in sections of the river. The bacterial pollution is associated with urban runoff and wastewater treatment plant discharges; and</i> <i>Exceedances of the sodium and chloride water quality guidelines in the lower reaches of the Groot Letaba River.</i> <p><i>The sewage discharges in the study area are not large, so the potential for specific re-use schemes of treated effluent as a possible intervention option is low. Another concern is that the waste water treatment works would have to be significantly upgraded for direct re-use up to potable or even industrial use.</i></p>	
	Discussion	
12a	<i>Mr Louis van Rooyen enquired about microbial data in the Groot Letaba River. Mr Coleman explained that there is no data available.</i>	
12b	<i>Mr Nditwani commented that this presentation shows that this system still has water of good quality. We must keep it that way and improve the quality even further with all the planned interventions.</i>	
13.	CLASSIFICATION OF WATER RESOURCES AND THE DETERMINATION OF RESOURCE QUALITY OBJECTIVES IN THE LETABA CATCHMENT	
	<p><i>Mr Rufus Nengovhela (DWA) informed the meeting of a new study: the classification of water resources and the determination of resource quality objectives (RQOs) in the Letaba Catchment. The classification of our water resources is required by the National Water Act (NWA) and will help in maintaining the desired state of the water resources by setting a Management Class (MC) for every significant water resource. A MC facilitates the balance between protection and use of the water resources.</i></p> <p><i>The NWA states that the purpose of RQOs is to establish clear goals relating to the quality of the relevant water resources. It also stipulates that in determining RQOs, a balance must be sought between the need to protect and sustain water resources and the need to use them.</i></p>	
	Discussion	
	<i>No discussions were needed.</i>	
14.	WATER CONSERVATION AND WATER DEMAND MANAGEMENT - MUNICIPALITIES	
	<p><i>Mr Willem Wegelin, Ms ZamaSiqalaba, and Mr Nsika Zondo(Study Team) presented the water conservation and water demand management (WC/WDM) taskfindings of this study to the SSC. The objectives of WC/WDM are:</i></p> <ul style="list-style-type: none"> <i>To make more effective and efficient use of the existing and available water resources by all water use sectors in the study area;</i> <i>To develop realistic water saving targets for the respective water use sectors and quantify the impact on current and future water requirements in the study area;</i> <i>To enable the authorities to “free-up” additional water, which can be put to beneficial use in the public interest;</i> <i>To conserve water and avoid or delay the implementation of further expensive schemes for transfers and storage which may not be necessary if water is used efficiently; and</i> <i>To provide necessary information to support the implementation of compulsory licensing and</i> 	

	<p><i>related water allocation reforms.</i></p> <p><i>The district and local municipalities in the study area face numerous challenges regarding WC/WDM that has been divided into four main areas of concern:</i></p> <ul style="list-style-type: none"> <i>• Institutional;</i> <i>• Financial;</i> <i>• Social; and</i> <i>• Technical.</i> <p><i>The aggregate adjusted capital budget for all South African municipalities in the 2011/12 financial year was R46 billion of which only R33.2 billion or 72.5 % had been spent by 30 June 2012. This reflects the challenges of planning for the implementation of capital projects. The status quo makes it difficult to motivate for additional funding, specifically for WC/WDM. Municipalities need to improve budgeting and prioritise.</i></p> <p><i>The benefits of WC/WDM to municipalities include:</i></p> <ul style="list-style-type: none"> <i>• Improved level of service;</i> <i>• Increased revenue and affordability;</i> <i>• Improved customer relations;</i> <i>• Educated and water efficient customers;</i> <i>• Job creation;</i> <i>• Water security;</i> <i>• Asset management;</i> <i>• Improved corporate governance; and</i> <i>• Improved institutional arrangements.</i> 	
	Discussion	
	<i>No discussion was needed.</i>	
15.	DISCUSSION AND ISSUES	
15a	<i>Mr Bernie Badenhorst (DWA) asked for a combined 15 minute presentation of the study to share with other forums in the study area. Mr Nditwani asked the study team to have such a presentation ready by 30 November 2012.</i>	Study Team
15b	<i>Mr Louis van Rooyen commented that it is difficult to read the presentations that have been printed four slides to a page. He suggested that the slides with detailed graphics be printed on only one slide to an A4 page for the next meeting. Mr Nditwani replied that this will be done for the next SSC meeting.</i>	Study Team
15c	<i>Mr Badenhorst commented that there is not enough capacity in municipalities and this is the main reason for municipalities not being able to spend their budgets as well as contributing to pollution in rivers. We must make a concerted effort to make municipalities efficient.</i>	
15d	<i>Mr Nditwani announced that although Polokwane falls outside the study area, it receives water from there and the Capricorn District Municipality will therefore be drawn into this SSC.</i>	
15e	<i>Mr Pieter de Witt (Limpopo Department of Agriculture) commented he gets the idea that water resource studies are just playing catch-up up to a specific date in the future and do not care about what happens after that date.</i>	

	<i>Mr Nditwani responded that a management effort is needed with all of us taking part in solving problems related to the management of water resources. All water resource management studies are carefully planned to provide sufficient water in a specific catchment.</i>	
16.	SSC TERMS OF REFERENCE FEEDBACK	
	<i>Mr André Joubert (Study Team) briefly highlighted what is expected of members of this committee.</i>	
17.	CONFIRMATION OF MEMBERSHIP OF THE LUVUVHU AND LETABA SSC	
	<i>Mr André Joubert (Study Team) asked SSC members to contact him with the names of organisations of people who can add value to this SSC.</i>	
18.	GENERAL	
	<i>Nothing was discussed under this point.</i>	
19.	DATE OF NEXT MEETING	
	<i>The next SSC meeting will be on Wednesday, 23 October 2013.</i>	
20.	CLOSURE	
	<i>Mr Nditwani ended proceedings by providing a recap of what was discussed today. He thanked all members on behalf of the DWA for attending the meeting.</i>	

Attendance Register – 31 October 2012

Russel Aird
Consultant
Kayamandi
P O Box 13359
HATFIELD 0028
Email: russell@kayamandi.com

TEL (012) 430 2888
FAX (012) 430 2979

Bernie Badenhorst
Chief Engineer: Planning and Development Regional
Office
Department of Water Affairs (DWA)
Private Bag X9506
POLOKWANE 0700
Email: BadenhorstB@dwa.gov.za

TEL (015) 290 1218
FAX (015) 295 3250
CELL 083 627 5912

Trevor Coleman
Golder Associates Africa (Pty) Ltd
P O Box 6001
HALFWAY HOUSE 1685
Email: tcoleman@golder.co.za

TEL (011) 254 4800
FAX (011) 315 0317
CELL 083 447 2003

Pieter de Witt
Environmental Services
Limpopo Department of Agriculture

TEL (015) 291 1551
FAX (015) 291-1856
CELL 082 954 3444

Private Bag X9487
POLOKWANE 0700
Email: dewittp@agric.limpopo.gov.za

Willem du Toit
Assistant Director: Groundwater
Department of Water Affairs (DWA)
P O Box 118
POLOKWANE 0700
Email: Dutoitw2@dwa.gov.za

TEL (015) 290 1262
FAX 086 273 5400
CELL 082 808 6386

Dries Enslin
Chairman
Agri Letaba
Postnet Suit 387, Privaat Sak X 4019
TZANEEN 0850
Email: driesenslin@gmail.com

TEL (015) 307-2725
FAX (086) 630 5629
CELL 079 494 6927

Hannes Enslin
Planning Forester
Northern Timbers (Pty) Ltd
Email: hannese@merensky.co.za

MartinusGouws
Manager
Department of Agriculture
Private Bag X9487
POLOKWANE 0700
Email: gouwsmj@agric.limpopo.gov.za

TEL (015) 291 1551
FAX (015) 295 5003/8754
CELL 082 900 2490

Dr Thomas Gyedu-Ababio
Manager: Water Resources
South African National Parks
Private Bag X1021
PHALABORWA 1390
Email: thomas.gyedu-ababio@sanparks.org

TEL (013) 735 3500
FAX (086) 735 3519
CELL 082 908 7729
TEL (013) 735 6519

Witek Jezewski
Deputy Chief Engineer: Water Services Planning and
Information
Department of Water Affairs (DWA)
Private Bag X313
PRETORIA 0001
Email: jezewski@dwa.gov.za

TEL (012) 336 8160
FAX (012) 336 8295
CELL 082 412 4737
CELL 082 809 5609

Andre Joubert
PP Practitioner
Zitholele Consulting (Pty) Ltd
P O Box 6002
HALFWAY HOUSE 1685
Email: andrej@zitholele.co.za

TEL (011) 207 2077
FAX (086) 678-5350
CELL 079 505 3763

F P Kutama
Department of Water Affairs (DWA)
Email: kutamr@dwa.gov.za

ThapeloMachaba
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TEL (012) 336-8693

Assistant Director
Department of Water Affairs (DWA)
Private Bag X313
PRETORIA 0001
Email: machabjm@dwa.gov.za

CELL 082 884 1858

L Makombore
Capricorn District Municipality
P O Box 4100
POLOKWANE 0700
Email: lincolin.makomore@rhdhv.com

Dikeledi S Makoti
Technical Manager
Greater Tzaneen Local Municipality
P O Box 24
TZANEEN 0850
Email: makotids@tzaneen.gov.za
Email: dina.botes@tzaneen.gov.za

TEL (015) 307 8000/10
FAX (015) 307 8246

Henry Maluleke
Scientist
Department of Water Affairs (DWA)
Email: Malulekeh@dwa.gov.za

ManieMaré
WRP Consulting Engineers (Pty) Ltd
P O Box 1522
BROOKLYN SQUARE 0075
Email: maniem@wrp.co.za

TEL (012) 346 3496
FAX (012) 346 9956
CELL 082 326 9378

Zebulon Modikoa
Lepelle Northern Water
Email: zebulonm@lepelle.co.za

Lebo Mosoa
Integrated Water Resource
Planning North
Department of Water Affairs (DWA)
Private Bag X313
PRETORIA 0001
Email: mosoal@dwa.gov.za

TEL (012) 336 7564
FAX (012) 336-6731
CELL 082 885 1965

ThabisoMphahlele
Production Officer
Lepelle Northern Water
Email: thabisom@wrp.co.za

RhulaniMthombeni
Department of Economic Development, Environment
and Tourism
Private Bag X9484
POLOKWANE 0700
Email: mthombenirv@ledet.gov.za

TEL (015) 290-7000
FAX (015) 295-4013
CELL 071 187 48514

TonieMuller
Manager: Urban Water and Sanitation
LLRS – SSC 3 - Draft Minutes

TEL (015) 290 2083
FAX 086 613 9626

Polokwane Local Municipality
P O Box 111
POLOKWANE 0700
Email: tonie.muller@polokwane.org.za

TEL (015) 290 2100

VuledzaniMuthelo
Department of Water Affairs (DWA)
Email: muthelov@dwa.gov.za

Shane Naidoo
Director
Department of Water Affairs (DWA)
Private Bag X313
PRETORIA 0001
Email: NaidooShane@dwa.gov.za

TEL (012) 336 6707
FAX (012) 336-6712
CELL 082 806 5339

Tendani Nditwani
National Water Resource Planning
Department of Water Affairs (DWA)
Private Bag X313
PRETORIA 0001
Email: nditwanit@dwa.gov.za

TEL (012) 336 8189
FAX (012) 336 8295
CELL 082 888 5113

Rufus Nengovhela
Directorate: RDM
Department of Water Affairs (DWA)
Private Bag X313
PRETORIA 0001
Email: NengovhelaR@dwa.gov.za

TEL (012) 336 7886/7854
FAX (086) 587-3978
CELL 084 738 7910

M D Ntlemo
Greater Giyani Local Municipality
Private Bag X9559
GIYANI 0826
Email: ntlemomd@greatergiyani.gov.za

TEL (015) 811-5533
FAX (086) 510-1827
CELL 073 314 1747

H Phala
Provincial Manager
Capricorn District Municipality
P O Box 4100
POLOKWANE 0700
Email: phalah@cdm.org.za

TEL (015) 295 8974
FAX (015) 295 4010

Jan Potgieter
Deputy Director
Department of Agriculture, Forestry and Fisheries
Private Bag X515
SILVERTON 0127
Email: janpo@daff.gov.za

TEL (012) 846-8579
FAX (012) 846-8576
CELL 082 921 1507

Mpho Ramahlo
Secretary to the Mayor/ Traditional leader
Capricorn District Municipality
P O Box 4100
POLOKWANE 0700
Email: ramahlom@cdm.org.za

TEL (015) 294-1231
FAX (015) 295-4010
CELL 076 812 3139

Zama Siqalaba
Social Scientist
WRP Consulting Engineers (Pty) Ltd
P O Box 1522
BROOKLYN SQUARE 0075
Email: zamas@wrp.co.za

TEL (012) 346 3496
CELL 079 490 6995

Ockie van den Berg
Chief Engineer: Options Analysis (North)
Department of Water Affairs (DWA)
Private Bag X313
PRETORIA 0001
Email: VandenBergO@dwa.gov.za

TEL (012) 336 8613
FAX (012) 336 7399
CELL 082 809 2011

Sanet van Jaarsveld
Engineer: Options Analysis
Department of Water Affairs (DWA)
Private Bag X313
PRETORIA 0001
Email: vanjaarsvelds@dwa.gov.za

TEL (012) 336-7284
FAX (012) 336 7399
CELL 079 510 8523

Louis van Rooyen
Chairman
Letaba Water Users Association
P O Box 70
LETSITELE 0885
Email: info@agriletaba.co.za
Email: ljvanrooyen@mweb.co.za

TEL (015) 345 1817
FAX (015) 345 1783
CELL 083 627 6007

Pieter van Rooyen
WRP Consulting Engineers (Pty) Ltd
P O Box 1522
BROOKLYN SQUARE 0075
Email: pieterv@wrp.co.za

TEL (012) 346 3496
FAX (012) 346 9956
CELL 082 321 3446

Gustav van Veijeren
Vice Chairman
Letaba Water Use Association
P O Box 299
LETSITELE 0885
Email: grvv@mweb.co.za

FAX (015) 386 8753
CELL 083 271 1114

Philé Van Zyl
Additional Member
Sand River Water Users Forum/Bertie van Zyl (Pty) Ltd
P O Box 1000
MOOKETSI 0825
Email: Philezyle@gmail.com

TEL (015) 395 8212
FAX (015) 395 2092
CELL 083 627 8528

Mr Andre Venter
Executive Officer
Letaba Water Users Association
P O Box 1220
TZANEEN 0850
Email: lwgv@absamail.co.za

TEL (015) 307 2651
FAX (015) 307 2651
CELL 082 680 7000

Jacques Venter
Lower Olifants Forum

TEL (013) 735 3546
FAX (013) 735 3544

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South African National Parks
Private Bag X1021
PHALABORWA 1390
Email: jacquesv@sanparks.org

Willem Wegelin
WRP Consulting Engineers (Pty) Ltd
P O Box 1522
BROOKLYN SQUARE 0075
Email: willw@wrp.co.za

TEL (012) 346 3496
FAX (012) 346 9956
CELL 083 447 7999

Nsika Zondo
Technical
WRP Consulting Engineers (Pty) Ltd
P O Box 1532
BROOKLYN SQUARE 0075
Email: nsikaz@wrp.co.za

TEL (012) 346 3496
FAX (012) 346 9956