



2nd Regional Meeting on Tools for the Sustainable Management of Transboundary Aquifers

Birchwood Hotel & OR Tambo Conference Centre
Johannesburg, South Africa
28 November – 02 December 2016

Meeting convened in the framework of:

- *Governance of Groundwater Resources in Transboundary Aquifers (GGRETA Project) – Stampriet Transboundary Aquifer System (STAS) project*
- *Resilience in the Limpopo Basin (RESILIM) - The Potential of the Transboundary Ramotswa Aquifer (RAMOTSWA) project*
- *Sustainable Groundwater Management in SADC Member States project*

DRAFT PROGRAMME

Background and Objectives of the Meeting

Following the successful outcomes of the 1st Regional Meeting on Tools for the Sustainable Management of Transboundary Aquifers held in July 2015, this meeting is the second in a row of regional meetings on transboundary aquifers in the Southern Africa region. It addresses contemporary issues related to the management of transboundary aquifers in the region, with particular focus on the Stampriet and the Ramotswa transboundary aquifers, shared between Botswana, Namibia and South Africa; and Botswana and South Africa, respectively. Both projects related to these aquifers (led by UNESCO-IHP and IWMI, respectively) are moving into the second phase, and this meeting will take stock of progress and next steps. It will also provide essential training related to legal and institutional tools and approaches to management of transboundary aquifers.

The outline of the program is as follows:

- **Day 1:** Plenary presentation and discussion of project progress and integration into regional efforts on transboundary aquifers
- **Day 2-3:** Training on frameworks and tools to support the assessment and management of transboundary aquifers, such as international water law (including its linkages and interaction with domestic water legislation), institutional capacity, conjunctive management and gender
- **Day 4-5:** Technical workshop related to Ramotswa only

Target audience: Project partners of [Stampriet](#) and [Ramotswa](#) projects, including Ministry representatives, regional organizations, regional institutes such as the SADC-Groundwater Management Institute (SADC-GMI), focal points on groundwater management in the SADC member states, and international water management institutions.

DAY 1 • Monday, 28 November 2016, Johannesburg

Status and Progress on Stampriet and RAMOTSWA Projects

Objectives:

- Presentation of the Stampriet Transboundary Aquifer System (STAS) assessment rationale, main achievements and findings
- Presentation of the Ramotswa Transboundary Aquifer Project (RAMOTSWA) rationale, main achievements and findings
- Sharing experiences on transboundary aquifer cooperation in SADC

08:00-08:30	Registration
08:30-10:30	Opening of the meeting
08:30-09:00	Welcome remarks and opening of the meeting by the Governments of South Africa, Botswana and Namibia: <ul style="list-style-type: none">• Ministry of Water and Sanitation / Dept. of Water and Sanitation (DWS), South Africa

09:00-09:30	<ul style="list-style-type: none"> ○ <i>Ms Deborah Mochotlhi (tbc)</i> ● Ministry of Land Management, Water & Sanitation Services / Dept. of Water Affairs (DWA), Botswana <ul style="list-style-type: none"> ○ <i>Mr Thato Setloboko</i> ● Ministry of Agriculture, Water and Forestry / Dept. of Water Affairs and Forestry (DWAf), Namibia <ul style="list-style-type: none"> ○ <i>Mr Bertram Swartz</i> <p>Welcome remarks by SADC, UNESCO-IHP, and IWMI:</p> <ul style="list-style-type: none"> ● SADC, Rationale of the SADC Groundwater Management project <ul style="list-style-type: none"> ○ <i>Mr Phera Ramoeli</i> ● UNESCO-IHP, Rationale of the Stampriet Transboundary Aquifer System (STAS) assessment and objectives of the meeting <ul style="list-style-type: none"> ○ <i>Mr Tales Carvalho Resende, UNESCO-IHP</i> ● IWMI, Rationale of the RAMOTSWA Project <ul style="list-style-type: none"> ○ <i>Dr Karen Villholth, IWMI</i>
09:30-09:40	<p>Welcome remarks by Donors:</p> <ul style="list-style-type: none"> ● SDC / Embassy of Switzerland in Pretoria <ul style="list-style-type: none"> ○ <i>To be defined</i> ● USAID / RESILIM <ul style="list-style-type: none"> ○ <i>Ms Doreen Robinson, Regional Chief, Environment & Energy Team</i>
09:40-10:15	<p>Welcome remarks by Regional Organizations:</p> <ul style="list-style-type: none"> ● ORASECOM <ul style="list-style-type: none"> ○ <i>Mr Lenka Tamae (tbc)</i> ● LIMCOM <ul style="list-style-type: none"> ○ <i>Mr Sergio Siteo (tbc)</i> ● AMCOW <ul style="list-style-type: none"> ○ <i>Mr Charles Ngangoue (tbc)</i> ● ANBO <ul style="list-style-type: none"> ○ <i>Ms Tracy Molefi (tbc)</i> ● SADC-GMI <ul style="list-style-type: none"> ○ <i>Mr Roger Parsons</i> ● JPTC <ul style="list-style-type: none"> ○ <i>Ms Duduzile Twayi (tbc)</i>
10:15-10:30	<p>Roundtable for the presentation of participants and adoption of the agenda</p>
10:30-10:45	<p>Tea and coffee break</p>
10:45-12:30	<p>Stampriet Transboundary Aquifer System (STAS) assessment</p>
10:45-11:15	<ul style="list-style-type: none"> ● Stampriet Transboundary Aquifer System assessment (GGRETA project Phase 1) main findings and achievements <ul style="list-style-type: none"> ○ <i>Dr Piet Kenabatho, University of Botswana, STAS Assessment Report Coordinator</i>
11:15-11:45	<ul style="list-style-type: none"> ● GGRETA project Phase 2 activities and presentation of FREEWAT project: Development of a simulation model for the STAS <ul style="list-style-type: none"> ○ <i>Mr Tales Carvalho Resende, UNESCO-IHP, STAS Case Study Coordinator</i>

11:45-12:15	<ul style="list-style-type: none"> • GGRETA project Phase 2 legal and institutional component <ul style="list-style-type: none"> ○ <i>Mr Stefano Burchi, International Water Law Association (AIDA), GGRETA project legal expert</i>
12:15-12:30	<ul style="list-style-type: none"> • Discussion
12:30-13:45	Lunch
13:45-15:30	Presentation of the RAMOTSWA Transboundary Aquifer Project
13:45-14:00	<ul style="list-style-type: none"> • RAMOTSWA Project main findings and achievements, outlook to Phase 2 (RAMOTSWA2) <ul style="list-style-type: none"> ○ <i>Dr Karen Villholth, Principal Researcher, IWMI</i>
14:00-14:30	<ul style="list-style-type: none"> • RAMOTSWA Baseline Assessment <ul style="list-style-type: none"> ○ <i>Dr Piet Kenabatho, Lecturer, University of Botswana</i>
14:30-15:00	<ul style="list-style-type: none"> • RAMOTSWA Hydrogeology assessment incl. airborne electromagnetic and magnetic survey <ul style="list-style-type: none"> ○ <i>Mr Yvan Altchenko, Hydrogeologist, IWMI</i>
15:00-15:15	<ul style="list-style-type: none"> • RIMS – RAMOTSWA Information Management System <ul style="list-style-type: none"> ○ <i>Mr Geert-Jan Nijsten, Senior Researcher, IGRAC</i>
15:15-15:30	<ul style="list-style-type: none"> • Discussion
15:30-15:45	Tea and coffee break
15:45-17:00	Sharing experiences on transboundary aquifers cooperation in SADC: the Stampriet and Ramotswa case studies
15:45-17:00	<ul style="list-style-type: none"> • General discussion on tools for the sustainable management of transboundary aquifers in SADC: lessons learnt from the Stampriet and Ramotswa case studies
17:00-18:30	RAMOTSWA Advisory Committee meeting (for invited RAMOTSWA Representatives only)

International Water Law Training

Objectives:

- Provide training in international water law (including linkages with national water law) by presenting the principles and the practice of international law as it applies to transboundary water resources, with a special attention to transboundary aquifers.
- Map out and assess the state of international water law, and address compliance by teasing out the linkages between international legal obligations and domestic water legislation as regards transboundary water resources. As a result, participants:
 - will be exposed to:
 - the principles and practice of international water law, with special attention to transboundary aquifers;
 - linkages between international water law and domestic water legislation;
 - issues of domestic compliance with international water-related transboundary obligations;
 - will get a good grasp of the legal underpinnings of water resources at the transboundary level, including compliance through national water legislation.

09:00-09:10	Opening Session
09:00-09:10	<ul style="list-style-type: none"> • Presentation of the program and structure of the International Water Law Training: setting up the legal and institutional framework - international and domestic perspectives <ul style="list-style-type: none"> ○ <i>Mr Stefano Burchi, GGRETA project legal expert</i>
09:10-11:00	International Water Law
09:10-09:40 09:40-10:10 10:10-10:40 10:40-11:00	<p>Training delivered by Dr Francesco Sindico, Director, Strathclyde Centre for Environmental Law and Governance, University of Strathclyde, Scotland</p> <ul style="list-style-type: none"> • Key principles of customary international water law • Sources and instruments of international water law (global conventions and other instruments, regional and bilateral treaties, writings of international lawyers, judicial and arbitral decisions, etc.) • Examples and analysis of specific treaties, agreements and practice • Q&A and Discussion <p><i>Reference material:</i></p> <ul style="list-style-type: none"> - <i>United Nations Watercourses Convention</i> - <i>UNECE Water Convention</i> - <i>UNILC Draft Articles on the Law of Transboundary Aquifers:</i>

	<ul style="list-style-type: none"> - <i>UNECE Model Provisions on Transboundary Groundwater</i> - <i>Agreement on the Guarani Aquifer</i> - <i>Agreement on the Al-Sag /Al-Disi Aquifer</i> - <i>Treaty of the River Plata Basin</i> - <i>Agreement on the Establishment of the Zambesi Watercourse Convention</i> - <i>Agreement on the Establishment of the Orange-Senqu River Commission</i> - <i>Tripartite interim agreement for co-operation on the protection and sustainable utilization of the water resources of the Incomati and Maputo Watercourses</i> - <i>Agreement on the Establishment of the Limpopo Commission</i> - <i>SADC Revised Protocol on Shared Watercourses</i> - <i>Groundwater in international law by Stefano Burchi and Kerstin Mechlem</i>
11:00-11:15	Tea and coffee break
11:15-13:00	International Water Law (cont'd)
11:15-12:00	<ul style="list-style-type: none"> • Using legal instruments to support the management of a transboundary aquifer: The Draft Articles on the Law of Transboundary Aquifers <ul style="list-style-type: none"> ○ <i>Dr Francesco Sindico</i>
12:00-12:30	<ul style="list-style-type: none"> • Analysis of case studies: The Guarani Aquifer
12:30 -13:00	<ul style="list-style-type: none"> • Q&A and Discussion
13:00-14:00	Lunch
14:00-15:30	Group work – International Water Law
14:00-15:30	<ul style="list-style-type: none"> • Group work: Analysis of a fictitious transboundary aquifer, considering the provisions of the Draft Articles of the International Law Commission on the Law of Transboundary Aquifers
15:30-15:45	Tea and coffee break
15:45-17:00	Group work – International Water Law (cont'd)
15:45-16:30	<ul style="list-style-type: none"> • Presentation by participants on the results of the Group work
16:30-17:00	<ul style="list-style-type: none"> • Discussion

International Water Law Training (cont'd)

Institutional Capacity, Conjunctive Water Management, Water & Gender Training

Objectives:

- **International Water Law Training - Linkages with domestic water legislation**
- **Institutional Capacity, Conjunctive Management and Water & Gender Training - Frameworks and tools to support transboundary assessment and management**

09:00-11:00*	Linkages between international water law and domestic water law
09:00-09:45	<p>Training delivered by Mr Stefano Burchi, GGRETA project legal expert</p> <ul style="list-style-type: none"> • Reflections of international water law in domestic water legislation – theory and practice • Compliance with international water related obligations through domestic water legislation – theory and practice • Group work begins: Application of theory in the fictitious case of an agreement on a transboundary aquifer or a river, highlighting its links with national water legislation of the Contracting Parties
09:45-10:45	
10:45-11:00	
11:00-11:30	Tea and coffee break
11:30-13:00*	Linkages between international water law and domestic water law (cont'd)
11:30-12:30	<ul style="list-style-type: none"> • Group work continues • Presentation by participants on the results of the group work and discussion
12:30-13:00	
13:00-14:00	Lunch
14:00-15:20	Conjunctive Management and Institutional Capacity Development
14:00-14:30	<ul style="list-style-type: none"> • Conjunctive management of transboundary waters <ul style="list-style-type: none"> ○ <i>Dr Jonathan Lautze, Senior Researcher, IWMI</i> • Institutional self-assessment for transboundary aquifer management <ul style="list-style-type: none"> ○ <i>Dr Nicole Lefore, Senior Researcher, IWMI</i> • Discussion
14:30-15:00	
15:00-15:20	
15:20-15:40	Tea and coffee break
15:40-16:40	Water & Gender Training
15:40-16:00	<ul style="list-style-type: none"> • How to consider social and gender aspects in transboundary assessments and cooperation <ul style="list-style-type: none"> ○ <i>Ms Stephanie Hawkins, PhD student, Univ. of Strathclyde</i>

16:00-16:20	<ul style="list-style-type: none"> • Training on water sex-disaggregated data collection for field surveys <ul style="list-style-type: none"> ○ <i>Ms Michela Miletto, Deputy Coordinator, UNESCO-WWAP (tbc)</i>
16:20-16:40	<ul style="list-style-type: none"> • Discussion
16:40-17:00	Concluding Remarks
16:40-16:50	<p>Concluding remarks by the Governments of South Africa, Botswana and Namibia:</p> <ul style="list-style-type: none"> • Ministry of Water and Sanitation / Dept. of Water and Sanitation (DWS), South Africa <ul style="list-style-type: none"> ○ <i>Ms Deborah Mochotlhi (tbc)</i> • Ministry of Land Management, Water & Sanitation Services / Dept. of Water Affairs (DWA), Botswana <ul style="list-style-type: none"> ○ <i>Mr Thato Setloboko</i> • Ministry of Agriculture, Water and Forestry / Dept. of Water Affairs and Forestry (DWAf), Namibia <ul style="list-style-type: none"> ○ <i>Mr Bertram Swartz</i>
16:50-17:00	<p>Concluding remarks by SADC, UNESCO-IHP, and IWMI:</p> <ul style="list-style-type: none"> • SADC <ul style="list-style-type: none"> ○ <i>Mr Phera Ramoeli</i> • UNESCO-IHP <ul style="list-style-type: none"> ○ <i>Mr Tales Carvalho Resende, UNESCO-IHP</i> • IWMI <ul style="list-style-type: none"> ○ <i>Dr Karen Villholth, IWMI</i>

* Different agenda for the morning will be shared to a very small group of invited participants from Ramotswa project only (RIMS managers, IWMI data specialists, IGRAC)

RAMOTSWA Technical Meeting

Objectives:

- To consolidate the Baseline Report
- To discuss RAMOTSWA Information System (RIMS) and to decide on final setup and full implementation plan
- To discuss and decide on ways forward on the Institutional Self-assessment
- To discuss and decide on ways forward on the Strategic Action Plan (SAP)

09:00-11:30	Baseline assessment and RIMS
09:00-10:00	<ul style="list-style-type: none"> • Consolidation of Baseline Report <ul style="list-style-type: none"> ○ <i>Mr Yvan Altchenko, Hydrogeologist, IWMI</i> • Discussion
10:00-11:00	<ul style="list-style-type: none"> • RIMS progress and future planning <ul style="list-style-type: none"> ○ <i>Mr Bochengedu Somolekae, RIMS Manager, Botswana</i> ○ <i>Mr Kwazi Majola, RIMS Manager, South Africa</i> ○ <i>Mr Geert-Jan Nijsten, Senior Researcher, IGRAC</i> • Discussion
11:00-11:30	Coffee break
11:30-13:00	Institutional Self-assessment
11:30-12:15	<ul style="list-style-type: none"> • Way forward on the Institutional Self-assessment <ul style="list-style-type: none"> ○ <i>Dr Nicole Lefore, Senior Researcher, IWMI</i>
12:15-13:00	<ul style="list-style-type: none"> • Discussion
13:00-14:00	Lunch
14:00-17:00	Strategic Action Plan, Part 1
14:00-14:30	<ul style="list-style-type: none"> • Presentation of Consultations on the SAP <ul style="list-style-type: none"> ○ <i>Dr Jonathan Lautze, Senior Researcher, IWMI</i> • Discussion
14:30-15:30	<ul style="list-style-type: none"> • Group work: Analysis of SAP components and joint priorities
15:30-15:45	Coffee break
15:45-17:00	<ul style="list-style-type: none"> • Presentations from Group work on SAP and identification of focal points • Discussion

RAMOTSWA Technical Meeting (ctd.)

Objectives:

- To decide on framework and timeframe for Strategic Action Plan (SAP)
- To present and discuss Focal Group Discussions on ag-water and WATSAN in the Ramotswa transboundary aquifer area (RTBAA)
- To present and discuss workplan for RAMOTSWA2

09:00-11:00	Strategic Action Plan, Part 2
09:00-10:00	<ul style="list-style-type: none"> • Discussion on ways forward on SAP <ul style="list-style-type: none"> ○ <i>SAP Focal Point, Botswana</i> ○ <i>SAP Focal Point, South Africa</i>
10:00-10:30	<ul style="list-style-type: none"> • Focal Group Discussions on ag-water solutions and WATSAN in Ramotswa Transboundary Aquifer Area (TBAA) <ul style="list-style-type: none"> ○ <i>Mr Jonathan Otene, Intern, IWMI</i>
10:30-11:00	<ul style="list-style-type: none"> • Discussion on finalizing SAP Report <ul style="list-style-type: none"> ○ <i>Dr Jonathan Lautze, IWMI</i>
11:00-11:30	Coffee break
11:30-13:00	Wrapping up
11:30-11:50	<ul style="list-style-type: none"> • Forward look/work plan for RAMOTSWA2 <ul style="list-style-type: none"> ○ <i>Dr Karen Villholth, IWMI</i>
11:50-12:10	<ul style="list-style-type: none"> • Any matters arising <ul style="list-style-type: none"> ○ <i>Mr Keetile Keodumetse and Mr Sakhile Mndaweni</i>
12:10-12:20	<ul style="list-style-type: none"> • Closing <ul style="list-style-type: none"> ○ <i>Dr Karen Villholth, IWMI</i>
12:20-13:00	<ul style="list-style-type: none"> • Evaluation and bilateral planning as required <ul style="list-style-type: none"> ○ <i>All participants</i>
13:00-14:00	Lunch