

## CURRENT RESEARCH, DEVELOPMENTS, PROJECTS AND PROGRAMMES FOR NORTHERN CAPE REGIONAL OFFICE

Title	Aim	Contact	Role-Players	Time Frames	Comments / Notes
Groundwater - water use licenses application	To continuously manage and protect the ground water usage.	Mr. J. Makhetha <a href="mailto:makhetj@dwa.gov.za">makhetj@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	Continuous	Most water user are authorised and others on the process. Ongoing process.  Some WUL applicants not complying with the requirements.
Groundwater exploration and Development in Langeberge	Explore for and develop groundwater at 20 sites	Mr. T. Zikali <a href="mailto:zikalit@dwa.gov.za">zikalit@dwa.gov.za</a>	Department Water Affairs (DWA)  (Directorate: Hydrological Services and Regional Offices) Consultant: Council for Geoscience (CGS)	2008 - 2014	A total of 22 boreholes were planned and currently only 12 boreholes have been drilled.  Drilling stopped due to drilling team being closed down.
Groundwater exploration and Development in Karoo	Explore for and develop groundwater at 30 sites	Mr. J. Makhetha <a href="mailto:makhetj@dwa.gov.za">makhetj@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2014	Project still to be attended to, Britstown completed, additional requests from Victoria West, Loxton, Strydenburg.
Regional groundwater level observation network for Northern Cape	Observe groundwater level trends at regional and aquifer level to inform water managers and users on status	Mr. J. Makhetha <a href="mailto:makhetj@dwa.gov.za">makhetj@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	Continuous	Continues observations, data capturing, trend analysis, information dissemination when needed.
Influence of vegetation on groundwater proximate to Smartt Syndicate dam	Observe the influence of Prosopis sp. on groundwater	Mr. L. Baloyi <a href="mailto:balyoil2@dwa.gov.za">balyoil2@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2015	Section sitting completed. Drilling to commence.

<b>Title</b>	<b>Aim</b>	<b>Contact</b>	<b>Role-Players</b>	<b>Time Frames</b>	<b>Comments / Notes</b>
Observation of groundwater in Postmasburg area	Manage the impact of water use and specifically mine dewatering	Mr. L. Baloyi <a href="mailto:balyoil2@dwa.gov.za">balyoil2@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	Continuous	Observation networks in place. Trend analysis when needed and reporting to Tshiping water user association
Observation of groundwater in Sishen/ Kathu area	Manage the impact of water use and specifically mine dewatering on groundwater	Mr. L. Baloyi <a href="mailto:balyoil2@dwa.gov.za">balyoil2@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	Continuous	Observation networks in place. Trend analysis when needed and reporting to Tshiping water user association
Observation of groundwater in Tosca Molopo area	Manage the impact of water use and specifically irrigation on groundwater	Mr. J. Makhetha <a href="mailto:makhetj@dwa.gov.za">makhetj@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	Continuous	Observation networks in place. Trend analysis when needed and reporting to Tosca Molopo water user association meeting.
Observation of groundwater in Louwna Coetzersdam area	Manage the impact of water use and specifically irrigation on groundwater	Mr. T. Zikali <a href="mailto:zikalit@dwa.gov.za">zikalit@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	Continuous	Observation networks in place. Trend analysis when needed and reporting to Louwna water user association meeting.
Observation of groundwater in Tswaing area	Manage the impact of water use and specifically irrigation on groundwater	Mr. T. Zikali <a href="mailto:zikalit@dwa.gov.za">zikalit@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	Continuous	Observation networks in place. Trend analysis when needed and reporting to Tswaing water user association.

<b>Title</b>	<b>Aim</b>	<b>Contact</b>	<b>Role-Players</b>	<b>Time Frames</b>	<b>Comments / Notes</b>
Investigate possible pollution in Sannieshof	Manage the impact of possible pollution of drinking water	Mr. L. Baloyi <a href="mailto:balyoil2@dwa.gov.za">balyoil2@dwa.gov.za</a>  Mr. T. Zikali <a href="mailto:zikalit@dwa.gov.za">zikalit@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2015	Completed in 2009
Groundwater exploration and hydrocensus in Kgalagadi Transfrontier Park	Determine the influence of irrigation in Namibia on water Quality in SA, 2x production boreholes to be drilled	Mr. D Potgieter <a href="mailto:potgieterd@dwa.gov.za">potgieterd@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  SAN Parks	2010 - 2013	Monitoring of water levels and quality at Kwang and chemical profiling of four boreholes. Two in the Nossob and two in the Aoub River.
Hot Springs monitoring	Observe influence of earth quakes on water quality and yields	Ms. D Hohne <a href="mailto:hohned@dwa.gov.za">hohned@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	2011 - 2013	Ongoing
Observation of Groundwater in Western Karoo	Manage the impact of water use and specifically municipalities on groundwater	Ms. D Hohne <a href="mailto:hohned@dwa.gov.za">hohned@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  local Government	2010 - 2015	Observation network in place, current situation stable.
Groundwater exploration, development and observation of Groundwater in Namaqualand	Explore and develop groundwater at 20 site and manage the impact of water use specifically municipalities on groundwater.	Mr. D Potgieter <a href="mailto:potgieterd@dwa.gov.za">potgieterd@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  local Government	2010 - 2015	Number of boreholes drilled with suitable yields and quality.  Need to pump test boreholes.  Observation network in place, water levels low to critical

<b>Title</b>	<b>Aim</b>	<b>Contact</b>	<b>Role-Players</b>	<b>Time Frames</b>	<b>Comments / Notes</b>
Hydrocensus of farms in Siyanda District for PDI farmers	The Dept. of Agriculture is responsible for re-distribution of lands therefore; DWA needs to provide info on production boreholes for those farms.	Mr. D Potgieter <a href="mailto:potgieterd@dwa.gov.za">potgieterd@dwa.gov.za</a>  Ms. D Hohne <a href="mailto:hohned@dwa.gov.za">hohned@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  Provincial Department of Agriculture	March 2013 - Continuous	Ongoing
Explanation of different lithological units in the Richtersveld	To provide consultants with information on water quality and yield	Mr. D Potgieter <a href="mailto:potgieterd@dwa.gov.za">potgieterd@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office  in collaboration with Council for Geoscience	Jan/2012 – Dec/2014	Wait for DWA National Office contract for pump tests
AMD at mines in the Lower Orange Catchment	To identify pollution points in the vicinity of the defunct copper mines near Springbok	Mr. D Potgieter <a href="mailto:potgieterd@dwa.gov.za">potgieterd@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	Apr 2013 - TBC	Old mines and slime dams might have an effect on groundwater quality
Create baseline study on the groundwater in the Karoo for the areas that will be affected by hydraulically fracturing that falls under the Lower Orange WMA	This information will help DWA to ensure that the groundwater quality will not be affected by this mining process.	Ms. D Hohne <a href="mailto:hohned@dwa.gov.za">hohned@dwa.gov.za</a>	Department Water Affairs (DWA) National Office and Northern Cape Regional Office	2013 – 2018	Wait for DWA National Office for funding.
Water provision for Williston	To develop a well field to ensure sustainable water for Williston	Ms. D Hohne <a href="mailto:hohned@dwa.gov.za">hohned@dwa.gov.za</a>	Department Water Affairs (DWA) Northern Cape Regional Office	2013 - 2015	A number of boreholes need to be drilled and pump test analyses need to be done on these boreholes.