

ZAMBIA GROUNDWATER INFORMATION SYSTEM

The **Zambian Water Resources Management Authority** uses a GeODin information system to co-ordinate development and management of water resources in a sustainable manner. This holistic approach combines water quantity and quality data with the regulation, abstraction, allocation & usage of water resources.

ZAMBIA

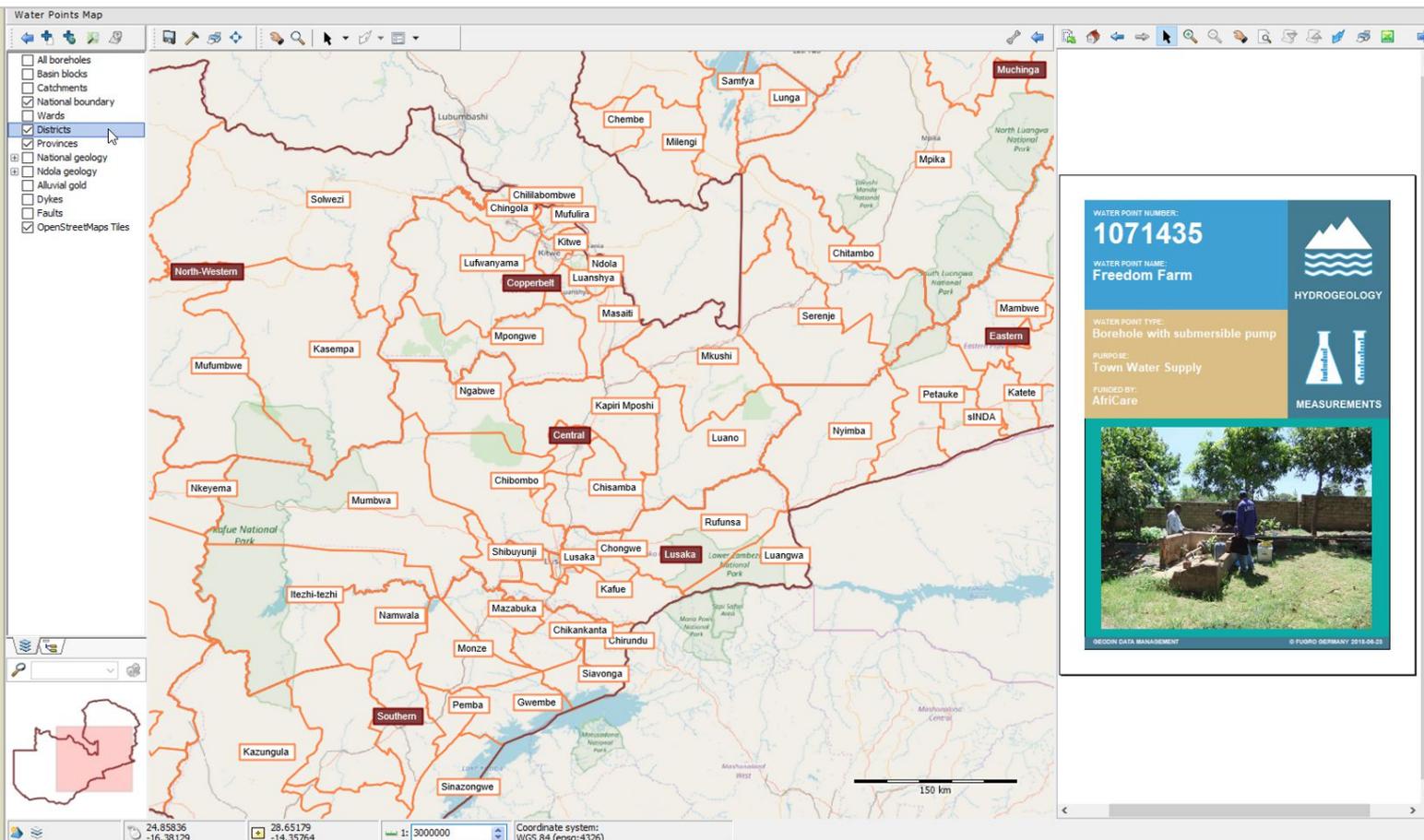
Zambia has many natural resources and a relatively favourable climate for agriculture. However many areas are drought prone. Several NGOs and international organisations run water supply projects; KfW (German Development Bank) and JICA (Japan International Cooperation Agency) are supporting well drilling programmes. The main subjects of the GIZ activities are personal and technical support to Zambian organisations in promoting reforms in the water sector as well as privatisation and decentralisation of public water and sanitation agencies.

WARMA

The Water Resources Management Authority (WARMA) is a statutory body, which exercises control over all water resources in Zambia. Their mandate is to preserve and protect Zambia's ground and surface water resources based on international best practices of integrated water resources management. The GeODin information system is installed centrally in Lusaka and in six regional catchment offices. Recent system updates have included permitting, borehole registration, owner and drilling company information.

 WATER RESOURCES MANAGEMENT AUTHORITY	
PERMIT	
Permit number:	ZKF562318
Catchment:	Kafue
Basin block:	Kafue Flats
Water point number:	2105223
Water point name:	Ayrshire Farm
Expected yield:	120.00 m ³ /d
Volume allocated:	100.00 m ³ /d
Draw off works:	solar pump
Intended purpose:	irrigation
Issued to:	Mr Thirsty
Issued on:	2018-06-22
Valid till:	2019-06-21
The seal of the Water Resources Management Authority was hereunto affixed this  In the presence of (signature): Director-General	

Water point permit



TRAINING WORKSHOPS

In November 2005 the first GeODin workshop was held in Lusaka to train the Department of Water Affairs personnel in the use of GeODin software and to customise it to meet special local requirements. The project team assessed groundwater related data, compiled a database with lithological characteristics of potential of aquifers and created thematic hydro-geological maps of the Southern Province study area.

For over 10 years GeODin has been used as part of a groundwater information system to support efforts on exploring, managing and protecting groundwater resources. During this time the database has since been expanded nationally with catchment officers from Zambezi, Kafue, Luangwa, Chambeshi, Luapula and Lake Tanganyika attending five further courses. The University of Zambia (UNZA), the GIZ (German International Cooperation) and water consultants also participated with WARMA at these training workshops.

TECHNICAL DETAILS

The recommended system requirements are PCs running Windows 10 (32- and 64-bit) with 4GB RAM and a display resolution of a 1920 x 1080 px. GeODin may also be run from a Windows 2012 Server or Citrix. Previous Windows operating systems and RAM configurations may work, but these are not supported. When working with client/server databases the appropriate database drivers must also be installed. Please contact your network administrator for further information.

GeODin can be used as a stand-alone program or integrated in a multi-user network. GeODin is available in English, French, German, Italian, Portuguese, Spanish, Russian and Turkish. Integrated contextual help is provided in English and German.

GeODin is designed, programmed and distributed exclusively by Fugro. Visit www.geodin.com for further information.