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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

DZ/T 0271-2014

**Code for the designing of regional groundwater level
monitoring network**

区域地下水位监测网设计规范 清晰版

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed by the Ministry of Land and Resources of the People's Republic of China.

This standard is under the jurisdiction of the National Land Resources Standardization Technical Committee (SAC/TC93).

This standard was drafted. China Geological Environment Monitoring Institute, Beijing Geological Environment Monitoring Station, Shandong Provincial Geological Environment Monitoring Station, Xinjiang Uygur Autonomous Region Geological Environment Monitoring Institute.

Introduction

Groundwater monitoring and its results are to carry out hydrogeological research, master the status of groundwater resources, rational development and utilization, and management of groundwater resources.

The basis for the work of source and science to prevent and control geological disasters and effectively protect the geological environment.

China has carried out groundwater monitoring work for more than 50 years. Most of the special monitoring wells used are hydrogeological exploration and Some of the remaining water source sites are used for the use of groundwater production wells as monitoring wells, as they are not built for monitoring networks (points).

If it is set up, it cannot fully meet the requirements of groundwater dynamics in the monitoring area, and the goal of groundwater monitoring cannot be achieved.

In order to carry out overall planning for groundwater monitoring, build a high-level and high-efficiency groundwater monitoring network, and actively promote the monitoring

network.

(point) construction, comprehensively improve the decision support and information service level of groundwater monitoring work, need to monitor the design of regional groundwater level monitoring network the background survey of the survey area, the investigation and evaluation of the status quo of the monitoring network, and the design of the density of the monitoring network are standardized, and the previous work experience is fully absorbed.

Based on this, this standard has been developed.

Design specification for regional groundwater level monitoring network

1 Scope

This standard specifies the regional data collection and analysis of the design of the regional groundwater level monitoring network, the investigation and evaluation of the current status of the monitoring network, and the monitoring network.

Requirements and methods, and the way in which results are produced.

This standard is applicable to the encryption and improvement of the groundwater level monitoring network in the existing area, and is also applicable to the monitoring of the groundwater level monitoring network in the blank area.

Layout.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 958 regional geological map legend GB/T 2260 Administrative division code of the People's Republic of China GB/T 14538 Comprehensive hydrogeological map legend and color code GB 50027-2001 Water supply hydrogeological survey specification DZ/T 0133-1994 Groundwater dynamic monitoring procedures DZ/T 0157 1.50000 geological map geographic base map coding specification

3 Terms and definitions

The following terms and definitions apply to this document.

Groundwater level dynamic groundwater level regime the process by which the water level of the groundwater and its related elements change over time.

Groundwater level monitoring Select a representative spring, well, hole, etc. for a region,

and carry out groundwater dynamic elements according to certain time intervals and technical requirements.

Observation, recording and data collation.

Groundwater level monitoring network A network of groundwater monitoring points (wells or springs) set up to grasp the dynamic elements of regional groundwater levels.

Monitoring area monitoring region the monitoring area refers to the scope of monitoring network monitoring.

Groundwater level dynamics factors factors affecting groundwater level regime Meteorological, hydrological, topographical, geological, ecological and human activities affecting groundwater level changes.