

ICS 13.060
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National Standard of the People's Republic of China

GB 5749-2006
Replaced GB 5749-1985

生活饮用水卫生标准
Standards for Drinking Water Quality

Issued on Dec 29, 2006

Implemented on Jul 01, 2007

Issued by **Ministry of Health of the People's Republic of China**
Standardization Administration of the People's Republic of China

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Foreword

All the technical contents of this national standard are compulsive.

This national standard will replace GB 5749 -1985 Standards for Drinking Water Quality from the implementation date of this standard.

There have been some significant changes in this national standard over its previous edition in the following technical aspects:

—— The water-quality index increase to 106 items from 35 items of GB 5749 - 1985, up 71 items. 8 of the previous items have been revised as follows:

- a) Microorganism index increases to 6 items from 2 initially, newly covering escherichia coli, heat-resisting coliform group, giardia and Cryptosporidium; total coliform group is revised;
- b) The drinking water disinfectant increases to 4 items from 1 item initially, newly covering monochloro amine, ozone and chlorine dioxide;
- c) Inorganic compound of toxicological index increases to 21 items from 10 items initially, newly covering bromate, chlorite, chlorate, stibium, barium, beryllium, borium, molybdenum, nickel, thallium, cyanogen chloride; and arsenium, cadmium, lead and nitrate are revised;

The organic compound of toxicological index increases to 53 items from 5 items initially, newly covering formaldehyde, trihalomethane, dichloromethane,, 1, 2-dichloroethane, 1, 1, 1-trichloroethane, bromofortn, chlorodibromomethane, monobromo-dichloro-methane, epoxy chloi.opfopa.ne, vinyl chloride, 1, l- dichloroethylene, vinylene chloride, trichloroethylene, tetrachloroethylene, hexachlorobutadiene, dichloroacetic acid, trichloroacetic acid, trichloroacetaldehyde, benzene, toluene, xylene, ethylbenzene, styrene, 2, 4, 6- trichlorophenol, chlorobenzene, 1, 2-dichlorobenzene, 1,4-dichlorobenzene, trichlorobenzene, din butyl phthalate (2-ethylhexyl) ester, acrylamide, microcystin-LR, beutazone, chlorothalonil, deltamethrin, dimethoate, 2, 4-dicholrophenoxyacetic acid, heptachlor, hexachlorobenzene, lindane, malathion, parathion, methyl parathion, pentachlorophenol, atrazine, furadan, chlorpyrifos, cquigard and glyphosate; carbon tetrachloride is revised;

- d) Sensitive character and general chemical index increases to 20 items from 15 items initially, newly covering oxygen consumption, ammonia nitrogen, sulfide, sodium and aluminium; turbidness is revised;
- e) About radioactive index, total alpha radioactivity is revised.

—— Two parts, selection of water source and sanitary protection of water source, have been deleted.

—— Simplify the provisions of water quality detection of water supply department and part of the contents is included into Health Specifications for Central Drinking Water Supply Institutions.

—— Add Appendix A.

—— Add references.

This national standard of this national standard is for reference only.

The implementation items and dates specified in Table 3: Water Quality Unconventional Indexes and Their Limitation shall be determined by the province-level governments according to the local practical situations and shall be filed in the Standardization Administration of China, the Ministry of Construction and the Ministry of Health. From 2008, these three authorities will announce implementation conditions of the unconventional indexes; and all the indexes shall be implemented by July 1, 2012 at latest

This national standard was proposed by the Ministry of Health, the Ministry of Construction, the Ministry of Water Resources, the Ministry of Land Resources and the State Environmental Protection Administration, etc..

This national standard is under the jurisdiction of Ministry of Health of the People's Republic of China.

This national standard was drafted by Environment and Health-related Product Safety Institute of Chinese Center for Disease Control and Prevention.

Drafting participators: Guangdong Administration of Health Supervision, Zhejiang Administration of Health Supervision, Jiangsu Disease Prevention and Control Center, Shanghai Disease Prevention and Control Center, China Urban Water Supply and Drainage Association, China Institute of Water Resources and Hydropower Research and Environmental Standard Institute of State Environmental Protection Administration

Drafters: Jin Yin long, E Xueli, Chen Changjie, Cheu Xiping, Zhang Lan, Chen Yayan; Cai Zugen, Gan Rihua, Shen Tuhang, Guo Changyi, Wei Jianrong, Ning Ruizhu, Liu Wenchang, Hu Linlin

Participating drafters: Cai Shiwen, Lin Shaobin, Liu Fan, Yao Xiaoyuan, Lu Kunming, Chen Guoguang, Zhou Huaidong and Li Yanping.

This national standard was firstly promulgated in August 1985 and this version is the first revision.

Standards for Drinking Water Quality

1. Scope

This national standard specifies the sanitary requirements for drinking water quality, drinking water source quality, central water supply organization, secondary water supply and health- and safety-related products, together with the water quality monitoring methods and water examination methods.

This national standard is applicable to all kinds of central drinking water supply and non-central drinking water supply in both urban and rural regions.

2. Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB 3838 Environmental Quality Standards for Surface Water

GB/T 5750 (whole) Standard Inspection Methods for Drinking Waters

GB/T 14848 Standards for Groundwater Quality

GB 17051 Health Specifications for Secondary Water Supply Facilities

GB/T 17218 Assessment of Health Safety for Treatment Chemicals of Drinking Water

GB/T 17219 Safety Evaluation Criteria for Drinking Water Distribution Equipment and Protective Material

CJ/T 206 Standards for Water Quality of Municipal Water Supply

SL 308 Standards for Aptitude of Rural Water Supply Organizations

Health Specifications for Central Drinking Water Supply Organizations (Ministry of Health)

3. Terms and Definitions

For the purposes of this national standard, the following terms and definitions apply.

3.1 Drinking water

Used as drinking water and domestic water in daily life.

3.2 Type of water supply

3.2.1 Central water supply

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