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

GB 5084-2021

Standard for irrigation water quality

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Foreword

To implement the Environmental Protection Law of the People's Republic of China, the Soil Pollution Prevention Law of the People's Republic of China, and the Water Pollution of the People's Republic of China

The Prevention and Control Law strengthens the supervision of irrigation water quality in farmland, guarantees the safety of cultivated land, groundwater and agricultural products, and formulates this standard.

This standard specifies requirements for irrigation water quality, monitoring and supervision and management of farmland.

This standard was first issued in 1985, and it was revised twice in 1992 and 2005. This is the third revision. This revision

The main content of the order.

2 Updated the normative references;

3. Added terms and definitions for irrigation water for farmland, paddy crops and dryland crops;

4. Added 9 agricultural items including total nickel, chlorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, nitrobenzene, toluene, xylene, cumene, aniline, etc.

Field irrigation water quality selection control project limit;

6 Increased the implementation and supervision of standards.

Since the implementation of this standard, "Farmland Irrigation Water Quality Standard" (GB 5084-2005), "Chlorobenzene, 1,2-Dichlorobenzene,

1,4-Dichlorobenzene and Nitrobenzene Limits" (GB 22573-2008), "Toluene, Xylene, Cumene, Phenol and Aniline Limits in Irrigation Water" (GB

22574-2008) repealed.

This standard is the basic requirement for irrigation water quality in farmland. Provincial people's governments may formulate local farmland irrigation for items not specified in this standard.

Irrigation water quality standards. For items that have been specified in this standard, local farmland irrigation water quality standards that are stricter than this standard can be formulated. Local farmland irrigation

Water quality standards should be reported to the competent department of ecological environment under the State Council for the record.

This standard was formulated by the Department of Soil Ecology and Environment and the Department of Regulations and Standards of the Ministry of Ecology and Environment.

The main drafting organizations of this standard. Chinese Academy of Environmental Sciences, Nanjing Institute of Environmental Sciences, Ministry of Ecology and Environment, Soil and

Agricultural and Rural Ecological Environment Supervision Technology Center, Environmental Protection Research and Monitoring Institute of Ministry of Agriculture and Rural Affairs.

This standard was approved by the Ministry of Ecology and Environment on January 9, 2021.

This standard shall be implemented from July 1, 2021.

This standard is interpreted by the Ministry of Ecology and Environment.

Irrigation water quality standards for farmland

1 Scope of application

This standard specifies requirements for irrigation water quality, monitoring and analysis methods, and supervision and management requirements for farmland irrigation.

This standard applies to water quality supervision and management that uses surface water

and groundwater as irrigation water sources for farmland. Urban sewage (industrial wastewater and medical sewage

(Except water) and unutilized livestock and poultry breeding wastewater, agricultural product processing wastewater and rural domestic sewage enter the farmland irrigation channel, and its downstream

The water quality of the nearest irrigation point shall be supervised and managed in accordance with this standard.

2 Normative references

This standard quotes the following documents or their clauses. For dated reference documents, only the dated version applies to this standard.

For undated references, the latest version (including all amendments) applies to this standard.

GB 7467 Water quality-Determination of hexavalent chromium-Diphenylcarbazide spectrophotometric method

GB 7475 Water Quality Determination of Copper, Zinc, Lead and Cadmium Atomic Absorption Spectrophotometry

GB 7484 Water quality-Determination of fluoride ion selective electrode method

GB 7494 Water quality Determination of anionic surfactants Methylene blue spectrophotometric method

GB 11889 Water quality-Determination of aniline compounds
N-(1-naphthyl)ethylenediamine azo spectrophotometric method

GB 11896 Water Quality Determination of Chloride Silver Nitrate Titration Method

GB 11901 Determination of suspended matter in water by gravimetric method

GB 11912 Determination of Nickel in Water by Flame Atomic Absorption Spectrophotometry

GB 13195 Determination of water quality and temperature by thermometer or reverse thermometer method

GB 20922 Urban Sewage Recycling Water Quality for Farmland Irrigation Water

GB/T 15505 Water Quality Determination of Selenium Graphite Furnace Atomic Absorption Spectrophotometry

GB/T 16489 Water quality-Determination of sulfide by methylene blue spectrophotometric method

HJ/T 49 Water quality-Determination of boron-curcumin spectrophotometric method

HJ/T 50 Water quality-Determination of chloral-Pyrazolinone spectrophotometric method

HJ/T 51 Water quality determination of total salt content gravimetric method

HJ/T 74 Water Quality Determination of Chlorobenzene Gas Chromatography

HJ 84 Determination of water quality inorganic anions (F-, Cl-, NO₂-, Br-, NO₃-, PO₄³⁻, SO₃²⁻, SO₄²⁻)

Sub-chromatography

HJ/T.200 Water quality-Determination of sulfide gas-phase molecular absorption spectrometry

HJ/T 343 Determination of Chloride in Water Quality Mercury Nitrate Titration (Trial)

HJ 347.2 Water Quality Determination of Fecal Coliform Multi-tube Fermentation Method

HJ/T 399 Water quality-Determination of chemical oxygen demand-Rapid digestion spectrophotometric method

HJ 484 Water quality-Determination of cyanide volumetric method and spectrophotometric method

HJ 485 Water quality-Determination of copper-Sodium diethyldithiocarbamate spectrophotometric method

HJ 486 Water quality determination of copper 2,9-dimethyl-1,10 phenanthroline spectrophotometric method

HJ 487 Water quality-Determination of fluoride-Zirconium alizarin sulfonate visual colorimetric method

HJ 488 Water quality-Determination of fluoride-Fluorine reagent spectrophotometric method

HJ 503 Water quality-Determination of volatile phenols 4-aminoantipyrine spectrophotometric method

HJ 505 Water Quality Determination of Five-day Biochemical Oxygen Demand (BOD₅) Dilution and Inoculation Method

HJ 592 Water quality Determination of nitrobenzene compounds by gas chromatography

HJ 597 Water quality-Determination of total mercury-Cold atomic absorption spectrophotometry

HJ 621 Water quality Determination of chlorobenzene compounds by gas chromatography

HJ 637 Water quality Determination of petroleum, animal and vegetable oils. Infrared