



Technical guidelines for eco-environmental health risk assessment - General principles

生态环境健康风险评估技术指南 总纲

MEE

Release Date: Mar 18, 2020
Implementation Date : Mar 18, 2020

Translated by ChemLinked

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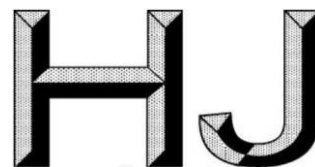
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National Environmental Protection Standard of the People's Republic of China

HJ 1111-2020

Technical guidelines for eco-environmental health risk assessment - General principles

This is an electronic version for release. The official text version published by China
Environment Publishing Group Co., Ltd. shall prevail.

Issued on 2020-03-18

Implemented on 2020-03-18

Issued by

Ministry of Ecology and Environment

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Foreword

This standard is formulated to implement the *Environmental Protection Law of the People's Republic of China*, strengthen eco-environmental risk management, promote the integration of views on public health protection into eco-environmental management, and guide and standardize eco-environmental health risk assessment.

This standard specifies the general principles, procedures, contents, methods and technical requirements for eco-environmental health risk assessment.

This standard is issued for the first time.

The formulation of this standard was organized by the Department of Laws, Regulations and Standards of the Ministry of Ecology and Environment.

The institutions responsible for this standard are mainly as follows: Chinese Academy of Environmental Planning of the Ministry of Ecology and Environment, China Society For Environmental Sciences, Huazhong University of Science and Technology, University of Science and Technology Beijing, Institute of Environmental Standards of the Ministry of Ecology and Environment, and South China Institute of Environmental Sciences of the Ministry of Ecology and Environment.

This standard was approved by the Ministry of Ecology and Environment on March 18, 2020.

This standard shall be implemented from the date of promulgation.

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

Technical guidelines for eco-environmental health risk assessment – General principles

1 Scope of Application

This standard specifies the general principles, procedures, contents, methods and technical requirements for eco-environmental health risk assessment.

This standard is applicable to guide the environmental health risk assessment conducted to prevent and control environmental chemical factors closely associated with damages to public health in the process of eco-environmental management.

2 Normative References

This standard refers to the following documents or provisions thereof. For undated references, the latest edition (including amendments) applies to this standard.

GB/T 27921 Risk management – Risk assessment techniques

HJ 839 Technical regulation of field investigation for environment and health – Cross-sectional study

HJ 875 Technical guideline for population exposure assessment of environmental pollutants

HJ 876 Technical regulation of investigation on children's soil ingestion rate – Tracer element method

HJ 877 Technical regulation of investigation on exposure factors

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1

Hazard identification

The process of determining the type and property of adverse effects caused in populations, individuals or target organs by chemical factors in the environment.

3.2

Hazard characterization

The process of qualitatively or quantitatively describing the inherent properties of chemical factors in the environment which cause adverse effects in individuals or populations.

3.3

Exposure assessment

The process of estimating or measuring the magnitude, frequency and duration of exposures of individuals or populations to chemical factors in the environment, including the analysis of sources of chemical factors in the environment, exposure pathways, exposure routes, number and characteristics of populations exposed and uncertainties.

3.4

Exposure scenario

Description of scenarios in which chemical factors in the environment migrate through different ways and reach the contact surface of the exposed, i.e. a series of facts, presumptions and assumptions about the occurrence process of any exposure.

Note: This definition is an adaption from 3.3, Terms and Definitions of HJ 875-2017.

3.5

Risk characterization

The process of qualitatively or quantitatively analyzing the probability of occurrence and uncertainty of adverse effects caused by chemical factors in the environment in the target population under specific exposure conditions.

3.6

Uncertainties

Situations in which the accuracy of eco-environmental health risk assessment results is affected due to the lack of scientific understanding, limitation of assessment methods and deficiency in basic data.

4 General Provisions

4.1 Assessment principles

4.1.1 Scientificity

Based on adequate collection of existing data and information and latest scientific evidence and in light of the need of eco-environmental management, purpose of assessment and data availability and validity, the assessment plan shall be determined in a scientific and reasonable manner, ensuring that the assessment process is systematic and integrated and the assessment conclusions are objective.

4.1.2 Stratification

Under the existing level of understanding as well as technical conditions, the assessment shall be carried out on a grade-by-grade basis, from simple to complex



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