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

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Soil quality -- Guidance on sampling of soil gas

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Foreword

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

This standard uses the translation method equivalent to ISO 10381-7.2005 Soil Quality Sampling Part 7. Soil Gas Sampling Guide.

For ease of use, this standard makes the following editorial changes.

--- Change the standard name to the Soil Quality Soil Gas Sampling Guide.

This standard was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic

This standard is under the jurisdiction of the National Soil Quality Standardization Technical Committee (SAC/TC404).

This standard was drafted. Nanjing Normal University, Nanjing Institute of Soil Science, Chinese Academy of Sciences, Jiangsu Institute of Quality and Standardization.

1 Scope

This standard gives guidelines for sampling soil gases.

This standard does not apply to soil gas determination, atmospheric gas sampling or passive sampling into the atmosphere.

2 Normative references

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

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

ISO 10381-1 Soil quality sampling Part 1. Design guide for sampling procedures (Soilquality-Sampling-Part 1.

Guidance on the design of sampling programmes)

ISO 10381-2 Soil quality sampling Part 2. Sampling technical guide
(Soil quality-Sampling-Part 2.Guid-

ance on sampling techniques)

ISO 10381-3 Soil quality sampling - Part 3. Safety guide (Soil quality-Sampling-Part 3.
Guidance

On safety)

ISO 11074-1 Soil quality vocabulary Part 1. Terms and definitions for soil protection and
pollution (Soil quality-Vo-

cabulary-Part 1.Terms and definitions relating to the protection and pollution of the soil)

ISO 11074-2 Soil quality vocabulary Part 2. Terms and definitions for sampling
(Soil quality-Vocabulary-

Part 2.Terms and definitions relating to the sampling)

3 Terms and definitions

The following terms and definitions defined by ISO 11074-1 and ISO 11074-2 apply to this document.

3.1

Active soil gas sampling active soil-gas sampling

A certain volume of soil gas is extracted for sampling.

3.2

Biodegradable biodegradation

The physical and chemical decomposition of matter by living organisms, mainly bacteria and fungi.

3.3

Drilling borehole

Holes are formed in the soil or landfill that can be used to install standpipes for gas monitoring.

Note. Drilling can also be used for other discharges or extractions.

3.4

Enrichment/adsorption method concentration/adsorption method

The method in which the substance to be tested is adsorbed and concentrated by an adsorbent such as activated carbon or XAD-4 resin, followed by desorption and analysis.

3.5

Dead volume deadvolume

The volume present between the soil gas detector extraction port and the sampling bottle, including the volume of the sampling bottle or adsorption tube.

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