

Irish Standard I.S. EN ISO 15175:2011

Soil quality - Characterization of soil related to groundwater protection (ISO 15175:2004)

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NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie		
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English Version

Soil quality - Characterization of soil related to groundwater protection (ISO 15175:2004)

Qualité du sol - Caractérisation des sols en relation avec la nappe phréatique (ISO 15175:2004)

Bodenbeschaffenheit - Ermittlung von Kennwerten des Bodens hinsichtlich des Wirkungspfads Boden -Grundwasser (ISO 15175:2004)

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

The text of ISO 15175:2004 has been prepared by Technical Committee ISO/TC 190 "Soil quality" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 15175:2011 by Technical Committee CEN/TC 345 "Characterization of soils" the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2011, and conflicting national standards shall be withdrawn at the latest by December 2011.

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The text of ISO 15175:2004 has been approved by CEN as a EN ISO 15175:2011 without any modification.

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INTERNATIONAL STANDARD

ISO 15175

First edition 2004-05-15

Soil quality — Characterization of soil related to groundwater protection

Qualité du sol — Caractérisation des sols en relation avec la nappe phréatique



ISO 15175:2004(E)

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ISO 15175:2004(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 15175 was prepared by Technical Committee ISO/TC 190, Soil quality, Subcommittee SC 7, Soil and site assessment.

Soil quality — Characterization of soil related to groundwater protection

1 Scope

This International Standard provides guidance on the principles behind, and main methods for, the evaluation of sites, soils, and soil materials in relation to their role as a source of contamination of groundwater and their function in transporting, degrading and transforming contaminants. It identifies and lists relevant monitoring strategies, methods for sampling, soil processing and analytical methods.

This International Standard is applicable to the evaluation of the impact of contaminants on groundwater in relation to

- drinking water quality,
- irrigation water quality,
- industrial use,
- natural base flow.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6341, Water quality — Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) — Acute toxicity test

ISO 6468, Water quality — Determination of certain organochlorine insecticides, polychlorinated biphenyls and chlorobenzenes — Gas chromatographic method after liquid-liquid extraction

ISO 6878, Water quality — Spectrometric of phosphorus using ammonium molybdate

ISO 7150-1, Water quality — Determination of ammonium — Part 1: Manual spectrometric method

ISO 7150-2, Water quality — Determination of ammonium — Part 2: Automated spectrometric method

ISO 7888, Water quality — Determination of electrical conductivity

ISO 7890-1, Water quality — Determination of nitrate — Part 1: 2,6-Dimethylphenol spectrometric method

ISO 7890-2, Water quality — Determination of nitrate — Part 2: 4-Fluorophenol spectrometric method after distillation

ISO 7890-3, Water quality — Determination of nitrate — Part 3: Spectrometric method using sulfosalicylic acid

ISO 7981-2, Water quality — Determination of six specified polynuclear hydrocarbons (PAH) — Part 2: Determination of six PAH by high-performance liquid chromatography with fluorescence detection after liquid-liquid extraction



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