

SVENSK STANDARD

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Vattenundersökningar – Provtagning – Del 6: Vägledning om provtagning i vattendrag för fysikaliska och kemiska undersökningar (ISO 5667-6:2014)

Water quality – Sampling – Part 6: Guidance on sampling of rivers and streams (ISO 5667-6:2014)

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The European Standard EN ISO 5667-6:2016 has the status of a Swedish Standard. This document contains the official English version of EN ISO 5667-6:2016.

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EUROPEAN STANDARD

EN ISO 5667-6

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2016

ICS 13.060.10; 13.060.45

English Version

Water quality - Sampling - Part 6: Guidance on sampling of rivers and streams (ISO 5667-6:2014)

Qualité de l'eau - Échantillonnage - Partie 6: Lignes directrices pour l'échantillonnage des rivières et des cours d'eau (ISO 5667-6:2014)

Wasserbeschaffenheit - Probenahme - Teil 6: Anleitung zur Probenahme aus Fließgewässern (ISO 5667-6:2014)

This European Standard was approved by CEN on 30 April 2016.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

The text of ISO 5667-6:2014 has been prepared by Technical Committee ISO/TC 147 “Water quality” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 5667-6:2016 by Technical Committee CEN/TC 230 “Water analysis” the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by March 2017, and conflicting national standards shall be withdrawn at the latest by March 2017.

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Please see informative Annex ZA (A-deviation), which is an integral part of this document.

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Endorsement notice

The text of ISO 5667-6:2014 has been approved by CEN as EN ISO 5667-6:2016 without any modification.

Introduction

An understanding of the purpose of sampling is an essential prerequisite to identifying the principles to be applied to a particular sampling problem. Examples of the purposes of sampling programmes commonly devised for rivers and streams are as follows:

- a) to determine the suitability of the water quality of a river or stream within a river basin for a particular use, such as
 - 1) a source of drinking water,
 - 2) for agricultural use (e.g. all types of irrigation, live-stock watering),
 - 3) for the maintenance or development of fisheries,
 - 4) for amenity use (e.g. aquatic sports and swimming), and
 - 5) for conservation and protection of aquatic life;
- b) to assess the impact of human activities on the quality of water, such as
 - 1) study of the effects of waste discharge or accidental spillages on a receiving water,
 - 2) assessment of the impact of land use on river or stream quality,
 - 3) assessment of the effect of the accumulation and release of substances including contaminants from bottom deposits on aquatic biota within the water mass, or on bottom deposits,
 - 4) study of the effects of abstraction, river regulation, and river-to-river water transfers on the chemical quality of rivers and their aquatic biota, and
 - 5) study of the effects of river engineering works on the water quality (e.g. addition or removal of weirs, changes to channel or bed structure).

Water quality — Sampling —

Part 6: Guidance on sampling of rivers and streams

WARNING — The focus of this part of ISO 5667 is the collection and integrity of water samples. The collection of these samples can be hazardous and attention is therefore drawn to the existence in some countries of legislative requirements for the safety of personnel. It is essential that all sampling personnel have had thorough health and safety training for the conditions they are likely to encounter.

1 Scope

This part of ISO 5667 sets out the principles to be applied to the design of sampling programmes, sampling techniques, and the handling of water samples from rivers and streams for physical and chemical assessment.

It is not applicable to the sampling of estuarine or coastal waters nor for microbiological sampling.

NOTE 1 Procedures for microbiological sampling are given in ISO 19458.^[10]

This part of ISO 5667 is neither applicable to the examination of sediment, suspended solids or biota, nor to dammed stretches of rivers or streams. Also, it is not applicable to passive sampling of surface waters (see ISO 5667-23).

NOTE 2 In cases where naturally occurring or artificially constructed dams result in the retention or storage of water for several days or more, the stretch of the river or stream should be considered as a standing water body. For sampling purposes, see ISO 5667-4.

2 Normative references

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

ISO 5667-1, *Water quality — Sampling — Part 1: Guidance on the design of sampling programmes and sampling techniques*

ISO 5667-3, *Water quality — Sampling — Part 3: Preservation and handling of water samples*

ISO 5667-11, *Water quality — Sampling — Part 11: Guidance on sampling of groundwaters*

ISO 5667-14, *Water quality — Sampling — Part 14: Guidance on quality assurance and quality control of environmental water sampling and handling*

ISO 6107-2:2006, *Water quality — Vocabulary — Part 2*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5667-11, ISO 6107-2, and the following apply.