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Code of practice for the management of geotechnical data for ground engineering projects

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Contents

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 14, an inside back cover and a back cover.

Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 March 2014. It was prepared by Subcommittee B/526/3, *Site investigation and ground testing*. A list of organizations represented on this committee can be obtained on request to its secretary.

Use of this document

As a code of practice, this British Standard takes the form of guidance and recommendations. It should not be quoted as if it were a specification and particular care should be taken to ensure that claims of compliance are not misleading.

Any user claiming compliance with this British Standard is expected to be able to justify any course of action that deviates from its recommendations.

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is "should".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

The word "should" is used to express recommendations of this standard. The word "may" is used in the text to express permissibility, e.g. as an alternative to the primary recommendation of the clause. The word "can" is used to express possibility, e.g. a consequence of an action or an event.

Notes and commentaries are provided throughout the text of this standard. Notes give references and additional information that are important but do not form part of the recommendations. Commentaries give background information.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Introduction

Each ground engineering project requires the collection of data from different sources and in a range of formats. The collected data are processed and transferred throughout the supply chain to be used by a variety of people and organizations.

The management and delivery of these data needs to be defined and maintained throughout each project, integrating the requirements set out in the project specification together with the objectives of those who produce and those who use the data. This can be achieved by the introduction of a data management system based on an organization's data management policy, which is covered in this standard.

A data management system is applicable to geotechnical and environmental investigations, construction projects with activities such as piling, earthworks and tunnelling, monitoring and asset management.

The procedures described in this standard facilitate the management of geotechnical data for use in a BIM project in accordance with PAS 1192.

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1 Scope

This British Standard gives recommendations on the management of geotechnical data throughout the life cycle of civil engineering and building projects at both an organizational and project level.

It also gives recommendations on the collection, storage, archiving, sharing and transfer of logical data.

This British Standard is intended for engineering geologists, geotechnical and environmental engineers, geotechnical data managers, IT managers and project managers.

2 Terms and definitions

For the purposes of this British Standard, the following terms and definitions apply.

2.1 data manager
person responsible for the data management system

2.2 data management plan
method of stating the requirements for maintaining, performing or improving data management at an operational level

2.3 data steward
person responsible for carrying out the processes needed for the data management system

2.4 data store
repository of project data

NOTE An example of a data store is a computer database.

2.5 geotechnical data
facts or figures obtained from all phases of a geotechnical project, including derivations from other data

NOTE Facts and figures might include text, numbers and formulae.

2.6 logical data
data connected by location and/or time and not the representation or the evaluation of those data

2.7 organization
company and/or project team

2.8 validation
control technique used to detect data that are in the correct format and within acceptable limits

2.9 verification
act of checking transferred data, usually at the stage of input to a computer system, by comparing copies of the data before and after transfer