ISO 15176:2002-10 (E)

Soil quality - Characterization of excavated soil and other soil materials intended for re-use

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative reference 1

3 Terms and definitions 2
3.1 Types of soil and other soil materials 2
3.2 Soil characteristics 3
3.3 Land and sites 4
3.4 Utilization, reclamation and treatment 5
3.5 Assessment 6

4 Characterization of soil materials and sites 6
4.1 General 6
4.2 Investigation strategies 8
4.3 Sampling strategies 8
4.4 Characterization of soil materials 11

5 Data quality, handling and evaluation 30

6 Using this International Standard 30

Annex A (informative) Data quality, handling and evaluation 31

Annex B (informative) Good practice in the re-use of soil materials 33

B.1 General 33
B.2 General guidance for re-use 33
B.3 Handling and storing excavated soil and other soil materials 34
B.4 Placement at the target site 34
B.5 After-care of the target site 35
B.6 Use of soil materials in construction works 35

Annex C (informative) Guidance on determination of the scope of investigation needed before excavation of soil materials 36

C.1 General 36
C.2 Determining the need for investigation 36
C.3 Development of analytical strategies 37

Annex D (informative) Example of classification and evaluation of soils and other soil materials 40

D.1 General 40
D.2 The concept of suitability classes 40
D.3 Suitability classes depending on harmful substance content 40
D.4 Soil unsuitable for re-use 42
D.5 Additional suitability classes for soil improvement and reclamation 42
D.6 Suitability of soils and soil materials for combining 43

Annex E (informative) Examples of elements and compounds belonging to different contaminant groups 45

Bibliography 47