

ICS 13.080.01
CCS B 10

TD

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

TD/T 1043.1-2013

**Technical regulation on subsurface drainage and desalination
soil. Part 1: Soil survey
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

**Issued by: Ministry of Land and Resources of the People's Republic of
China**

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Preparation
5 Soil and natural environment survey
6 Soil physical and chemical properties survey
7 Groundwater Survey
8 Soil survey results
Appendix A (Informative) Soil profile characteristics survey method
Appendix B (Informative) Soil particle composition and texture determination method
Appendix C (Informative) soil water-soluble salt conductivity and salt content determination method
Appendix D (Informative) Determination of soil permeability and water retention
Appendix E (Informative) Groundwater salinity and critical depth determination method
Appendix F (Informative) Soil Salinization, Soil Alkalization Classification
Appendix G (Normative) Soil survey data
Appendix H (Normative) Preparation of soil survey report
References

Foreword

TD/T 1043 "underground pipe improved saline technical regulations" is divided into two parts.

--- Part 1. Soil Survey;

--- Part 2. Planning and Design and Construction.

This section is part 1 of TD/T 1043 this section drafted in accordance with GB/T 1.1-2009 given rules.

This part is proposed by the Ministry of Land and Resources of the People's Republic of China.

This part of the People's Republic of China Ministry of Land and Resources centralized management.

This section mainly drafted by. Land and Resources Ministry of land remediation center, Institute of Geographic Sciences and Natural Resources Research, Shandong Agricultural University School, Dongying City land consolidation center, Shandong Zhongtian land and water ecological development and construction Co., Ltd., Dongying Jinchuan soil and water environmental engineering Co., Ltd., Hebei Land Consolidation Service Center, Jilin Province Land Consolidation Center, Jiangsu Province Land Development and Consolidation Center, Tianjin TEDA Garden Construction Co., Ltd.

Division, Jilin Agricultural University.

1 Scope

This part of TD/T 1043 is the plan design, construction management, monitoring evaluation and its subsequent maintenance and management of underground pipe improvement saline-alkali land project Provide soil survey parameters and determination of parameters. Provides for the general procedure for improved soil management in the area of soil management, soil environment and management Nature and hydrological characteristics of the survey indicators, provide a survey of indicators of measurement and preparation of soil survey report specifications.

This section applies to the underground pipe to improve the saline soil for the purpose of the investigation of the soil and salinized soil in northern China improved with the project, but also adapted to farmland tube drainage works to prevent waterlogging and other stains. In improving soil permeability conditions, this section can guide alkalized soil Soil improvement and utilization of the application of underground pipe Alkali technology.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1.1-2009 Guidelines for standardization Part 1. Structure and preparation of standards GB 3100 ~ 3102-1993 quantity and unit Laboratory use specifications and test methods for analysis GB/T 6682-2008 GB/T 15834-2011 Punctuation usage Land use classification Engineering measurement specification Calculation of alkalinity of soil LY/T 1249-1999 Technical Specifications for Soil Environmental Quality Monitoring of Farmland Soil Monitoring Procedures Soil testing - Part 2. Determination of soil pH Soil testing - Part 3. Determination of soil mechanical composition NY/T 1121.5-2006 Soil Testing - Part 5. Determination of Cation Exchange Capacity in Calcareous Soil Soil testing - Part 13. Determination of soil exchangeable calcium and magnesium Soil testing - Part 16. Determination of the total amount of water soluble salts in soil Soil testing - Part 17. Determination of chloride ion content in soil Soil testing - Part 18. Determination of sulfate

ion content in soil NY/T 1121.22-2010 Soil testing - Part 22. Determination of soil water holding capacity in the field Soil pH - Determination SL79-1994 Determination of salinity (gravimetric method)

3 Terms and definitions

The following terms and definitions apply to this document.