ISO 11504:2017-08 (E)

Soil quality - Assessment of impact from soil contaminated with petroleum hydrocarbons

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 3

5 Relevant fractions and individual compounds 4
5.1 General 4
5.2 Fractions 4
5.3 Individual compounds 5

6 Petroleum hydrocarbons in soil 6

7 Exposure assessment of petroleum hydrocarbons in soil 8
7.1 General 8
7.2 Relevant exposure routes for petroleum hydrocarbons 9
7.3 Exposure assessment methods 9
7.4 Toxicity assessment methods 10
7.5 Relations between oil fractions in different media related to exposure 11

8 Issues related to sampling and investigation 13
8.1 General 13
8.2 Issues related to analysis 13

Annex A (informative) Physico-chemical properties of different petroleum hydrocarbons, etc 15

Annex B (informative) Examples of suggested tolerated concentration in air (TCA) and tolerabledailyintake(TDI)valuesfordifferentspecificpetroleumhydrocarbons 19

Annex C (informative) Overview of suggested fractionations in different countries 20

Bibliography 22