

ISO 17380:2013-06 (E)

Soil quality - Determination of total cyanide and easily liberatable cyanide - Continuous-flow analysis method

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
4.1	Pretreatment of soil samples	2
4.2	Determination of total cyanide content	2
4.3	Determination of easily-liberatable cyanide content	2
5	Reagents	2
5.1	General reagents	2
5.2	Reagents for determination of cyanide	3
5.3	Standard solutions for cyanide determination	4
6	Apparatus	6
6.1	Standard laboratory glassware and laboratory equipment	6
6.2	Continuous flow analysis system	6
6.3	Shaking machine	7
7	Sampling, sample preparation and extraction	8
8	Working range	8
9	Procedure	8
9.1	General	8
9.2	Checking analysis system for correct function	8
9.3	Calibration graph	9
9.4	Measurement of samples	9
9.5	Cleaning of the analysis system	10
10	Calculation of the cyanide content in the sample	10
11	Precision	10
12	Test report	11
Annex A (informative) Recovery and repeatability		12
Annex B (informative) Information on continuous flow automatic distillation apparatus		14
Annex C (informative) Alternative distillation buffer (pH = 3,8)		15
Bibliography		16