

METHOD STATEMENT



Determinand:

Soil Preparation for determination of water-soluble determinands on soils and other solids

Matrix:

S Sample Type: soils and other solids.

Principle of Method:

A mass of sample is weighed out and a volume of water approximately 10 times its weight is added. The sample is then shaken for 30 minutes and filtered.

Sampling and Sample Preparation:

Sample is mixed to obtain as near a homogenous sample as possible. Sludge, cake and unground soils are stored at 3 ± 2 °C; if the sample is ground then this is stored at room temperature. Soil samples are dried and ground according to method WSC15 prior to analysis.

Interferences

N/A

Performance of Method:

Range of Application:

N/A

Limit of Detection:

Ammonia

$$\text{LOD (mg/kg)} = \frac{(A \times 1.22 \times 1000)}{\% \text{ Dried Solids of that sample}}$$

Phosphate

$$\text{LOD (mg/kg)} = \frac{(A \times 3.07 \times 1000)}{\% \text{ Dried Solids of that sample}}$$

Where: A is the LOD from the waste anions by colorimetry method in mg/l

Recoveries of Compounds, Bias and Uncertainty of measurement:

N/A

References:

R&D Note 301, Leaching Test Method for the Assessment of Contaminated Land, Interim Guidance, NRA (1994).