

Method Number: TM 332

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Method Summary

Redox in Soil

Scope and Range

This method is used to determine the redox potential in soil.

The Redox potential can be considered as a measure of the ease with which a substance either absorbs or releases electrons.

Redox is determined in samples with a range $\pm 999\text{mV}$ at 20°C .

Anaerobic soils will have negative ORP readings and aerobic soils will have increasingly positive ORP readings

The method is not accredited.

References

Orion Model A214 Benchtop pH / ISE meter - Thermo Scientific Instruction sheet

Principle

Preparation and Extraction:

The soil is wetted to form a slurry to enable the flow of electrons through the sample.

Analysis:

Redox probe is immersed into the sample tub and a direct reading is displayed and reported as mV at 20°C .

Interferences

Oily samples are unsuitable for the probe.

Redox readings should be taken on site where possible or as soon as possible when received in the Laboratory.