

GLOSOLAN PT 2025

Dr Michael Watts British Geological Survey 8th Meeting of the Global Soil Laboratory Network (GLOSOLAN)





GLOSOLAN PT 2025

- A follow-up to the Global PT in 2021/22 but with more parameters.
- 9 samples prepared for 300 labs.
- 3 samples of ~10g for particle size distribution (<2mm)
- 6 samples of ~40g (<250um) for:
 - (a) Soil Carbon by Dumas, Walkley Black, Loss-on-Ignition, P, N and metals (10g)
 - (b) pH (10g)
 - (c) Electrical conductivity (20g)
- Why BGS? BGS prepared the 2021/22 Global PT and 2024 Afrilab PT. Has experience in making reference materials for direct sale or commissioned from PT providers (e.g. LGC, GeoPT, Contest) from 1-200kg - agricultural soils, industrial contamination, stable isotopes, geological materials. BGS can draw on an archive of bulk materials.

Bulk soils

 Selection of soils - representative of a variety of soil types for C and pH – no parameters too challenging – testing the quality control capabilities

• Dissaggregation and milled to <250um fraction for homogeneity testing

total elemental data



Split to 1kg bags with riffle splitter and then again with rotary splitter





Homogeneity testing before packet sealing and packing into sets of PT samples for each lab





Packaged for irradiation and shipping to FAO for distribution





