

Soil, gas and vapour analysis

Exova Jones Environmental was the first environmental laboratory in the UK to offer sampling and analysis of gases in BottleVacs and Canisters and are the UK leaders in this area of expertise, having recently analysed samples from the UK, South Africa, Egypt and Europe. Many compounds are ISO 17025 (UKAS / ILAC) accredited. Full sampling instructions are supplied.

Sampling Options – Soil Gas

Exova Jones Environmental can provide evacuated BottleVacs and Silcocans (similar to Suma canisters). These are steel or toughened glass containers with inert interior coating, either 450ml or 1400ml. Both sizes provide sufficient sample for even low level analysis.

Various sampling trains can be offered for soil gas (13ml/min or 200ml/min)



Passive sampling

Uses an integrated sampler

8 hours – 450ml canister

24 hours – 1400ml canister

Analysis suites the same as soil gas

Advantages

Samples can be held for 45 days before testing

A whole sample is taken and the analysis can be decided upon after sampling

There is no overloading or breakthrough

Dilutions and repeats can be made

Samples can be taken at different rates over different periods of time

Addition of internal and surrogate standards can be made to monitor performance

Analysis

C1-C7 - methane, ethane, butane, propane, pentane, hexane and heptane

Bulk Gas - methane, carbon dioxide, oxygen, nitrogen and carbon monoxide

VOCs - Trace gases target list or TO15, with or without Tentatively Identified Compounds

TPH (C4-C12) total or banded

TPH CWG (C4-C12)

Helium

Low detection limits available