

SAMPLE SUBMISSION GUIDE



Environmental Science

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1. **Container shipping** – Coolboxes or ESKs – sent to office or site by i2.



2. Open the container and make sure you have enough bottles/jars to collect all samples.



SOIL CONTAINERS



WATER CONTAINERS



ASBESTOS CONTAINER

3. **Sample Labelling** – Ensure sufficient information is included on the labels/containers to allow for identification.

4. **Filling Sample containers** – The number of containers/volume requirements will be indicated on your quotation or by the customer service team. 40ml water vial, 30g VOC jar, and 300ml bottles for BOD, require samples to be filled with zero 'headspace' (no air gap). All other containers to be filled as full as possible.

Standard water bottle suites are:

- Waters – 2 x 300ml glass bottle, 2 x 40ml glass VOC vials*
- Inclusion of BOD – additional 300ml bottle
- Accredited TPH analysis – additional 300ml bottle

Standard soil container suites are:

- Soils – 500g tub, 60g jar, 2 x 30g VOC soil jars *
- WAC (BS EN 12457) – 2 kg plus 60g jar & 2 x 30g VOC jars*
- BS EN 12457 Leachate (all stages) - 2 kg
- BS 3882:2015 Topsoil Suite - 2kg minimum
- NRA Leachate - 500g tub

Asbestos testing requires a separate container

NOTES:

- The 30g VOC soil jars are for **volatile testing** (VOCs, >EC5- EC10 TPH bands, Solvents, VFAs, etc.) so can be excluded if not required.
- 40ml water vial and 30g VOC soil jar have PTFE seals within the lid to allow for a gas-tight seal without contaminating the sample.
- *Two VOC containers are advised to allow for repeat/dilution of these volatile parameters from the second container to avoid deviation.
- If scheduling a soil sample for WAC analysis (BS EN 12457) and a suite of general testing - 2 x 1L tub, 1 x 60g jar and 2 x 30g VOC jar is sufficient for analysis. Extra 500g tub and additional jars are not required.

These represent a “standard” suite of testing, please get clarification from your quotation or account manager if unsure on a specific project.

BREAKDOWN OF SOILS CONTAINERS



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500g Tub – Used for general (non-organic) testing and NRA Leachate analysis.



60g Jar – Used for 'as received' testing and general organics analysis - e.g. Phenol, Cyanide, PAH, TPH (>EC10), PCB, etc. These jars do not have a PTFE seal so cannot be used for volatile testing.



30g VOC Jar – For volatile testing e.g. BTEX/VOCs/EC5-EC10 TPH bands. We advise two VOC jars for the provision of repeat/dilution of these volatile parameters from the second jar to avoid deviation. These jars have a PTFE seal specifically for volatile testing.



180ml Asbestos tub – We require at least 100g of dried sample to carry out accredited asbestos analysis. This container filled full allows us to align with best practice for the safe preparation for analysis.



1 Litre tub – We require 2 x 1 Litre tubs (2kg of sample) for all accredited BS EN 12457 leachate testing (including WAC) to ensure the results obtained are sufficiently representative of the material to be tested. Failure to provide 2 x 1 Litre tubs will result in all associated tests reported as deviating. Please include 60g jar and 2 x 30g VOC jars where testing on the solid is also required (e.g. WAC suites).

Note - If scheduling a soil sample for WAC analysis (BS EN 12457) and a suite of general testing - 2 x 1L tub, 1 x 60g jar and 2 x 30g VOC jar is sufficient for analysis. Extra 500g tub and additional jars are not required.