

Client Sample Mass/Volume Requirements

An easy-to-use reference for mass/volume requirements

This document is a quick guide to the sample mass / volume required for testing your samples. Each of the determination types are listed below, and can be clicked to jump to the page instantly.

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| Common Suites | Sample Mass / Volume Required |
|---------------------------------|-------------------------------|
| | |
| Waste Acceptance Criteria (WAC) | 2kg |
| ENV2 Suite | 1kg |
| Topsoil Analysis (BS 3882) | 5kg |
| Topsoil Contamination Suite | 1kg |

| Method Number | Analysis | Sample Mass / Volume Required |
|---|---|-------------------------------|
| Determination of Organic Species | | |
| MT/ACSE/101 | Determination of BTEX in Soils and Granular Wastes by GC-FID | 10g |
| MT/ACSE/102 | Determination of TOC in Soils and Granular Wastes by NDIR | 10g |
| MT/ACSE/103 | Determination of TOC in Waters and Leachates by NDIR | 50ml |
| MT/ACSE/104 | Determination of PCBs in Soils and Granular Wastes by GC-ECD | 50g |
| MT/ACSE/105 | Determination of TPH in Soils and Solid Wastes by GC-FID | 50g |
| MT/ACSE/106 | Determination of PAHs in Soils and Solid Wastes by GC-MS | 50g |
| MT/ACSE/107 | Determination of Phenols in Groundwaters & Leachates from Solid Waste by HPLC | 10ml |
| LP/ACSE/103 | Low Level Phenol by HPLC | 1000ml |

| Method Number | Analysis | Sample Mass / Volume Required |
|---|--|-------------------------------|
| Determination of Inorganic Species | | |
| MT/ACSE/201 | Determination of Total Extractable Metals in Soils and Solid Wastes by Microwave Digestion / ICP-OES | 10g |
| MT/ACSE/202 | Determination of Mercury in Soils, Granular Wastes, Soils and Leachates by FIMS/CVAA | 10g |
| MT/ACSE/203 | Determination of Ammonium in Waters and Leachates by Spectrophotometry | 10ml |
| MT/ACSE/204 | Determination of Anions in Waters and Leachates by IC | 50g |
| MT/ACSE/205 | Determination of Metals in Waters and Leachates by ICP-OES | 250ml |

| Method Number | Analysis | Sample Mass / Volume Required |
|--|--|-------------------------------|
| Determination of Physicochemical Parameters | | |
| MT/ACSE/301 | Determination of pH of Soils, Waters and Leachates by pH Electrode | 100g / 50ml |
| MT/ACSE/302 | Loss on Ignition (LOI) in Soils by Combustion at 440°C | 50g |
| MT/ACSE/303 | Determination of Electrical Conductivity in Waters and Leachates by Conductivity Meter | 50ml |
| MT/ACSE/304 | Determination of TDS in Waters and Leachates by Filtration/Evaporation/Gravimetry | 50ml |
| MT/ACSE/305 | Determination of TSS in Waters and Leachates by Filtration/Gravimetry | 200ml |
| MT/ACSE/306 | Determination of BOD ₅ in Waters and Leachates | 100ml |
| MT/ACSE/307 | Determination of COD in Waters and Leachates by Digestion/Spectrophotometry | 10ml |

| Method Number | Analysis | Sample Mass / Volume Required |
|-------------------------------|---|-------------------------------|
| Non Accredited Methods | | |
| NAM/ACSE/X01 | BTEX Determination in Waters | 50ml |
| NAM/ACSE/X02 | Determination of Total Petroleum Hydrocarbons in Water | 50ml |
| NAM/ACSE/X03 | Determination of Phenols in Soils and Solid Waste | 25g |
| NAM/ACSE/X04 | Determination of Total Alkalinity in Water & Leachates | 100ml |
| NAM/ACSE/X05 | Determination of Total Nitrogen in Water | 50ml |
| NAM/ACSE/X06 | BTEX Determination in Soils and Solid Waste - Extended Version for TPH Speciation | 10g |
| NAM/ACSE/X07 | Determination of Speciated Total Petroleum Hydrocarbons in Soils and Solid Waste | 50g |
| NAM/ACSE/X08 | ICP-OES Determination of Water Soluble Boron | 100g |
| NAM/ACSE/X09 | Determination of Cyanide and Sulphide in Soils | 100g |
| NAM/ACSE/X10 | Determination of Cyanide in Waters | 100ml |

| Method Number | Analysis | Sample Mass / Volume Required |
|-------------------------------|---|-------------------------------|
| Non Accredited Methods | | |
| NAM/ACSE/X11 | Determination of Hexavalent Chromium in Waters & Soils | 50g / 50ml |
| NAM/ACSE/X12 | Determination of MTBE in Soils and Solid Granular Wastes | 10g |
| NAM/ACSE/X13 | Determination of Acid Soluble Sulphate in Soils and Waters | 50g / 100ml |
| NAM/ACSE/X16 | Determination of Polynuclear Aromatic Hydrocarbons in Waters and Leachates | 200ml |
| NAM/ACSE/X17 | Determination of Elemental Sulphur in Soils | 50g |
| NAM/ACSE/X19 | Determination of Ammonia Nitrogen by Colorimetry | 10ml |
| NAM/ACSE/X20 | Determination of Thiocyanate by Ion Selective Electrode | 50g / 50ml |
| NAM/ACSE/X21 | Determination of Acid Neutralisation Value for Liming Materials to BS EN 12945:2008 | 10g |
| NAM/ACSE/X22 | Determination of Extractable Phosphorus in Soils (BS 3882:2007, Annex A) | 50g |
| NAM/ACSE/X23 | Determination of Exchangeable Cations (K, Mg, Na & Ca) in Soils (BS 3882:2007, Annex B) | 50g |

| Method Number | Analysis | Sample Mass / Volume Required |
|-------------------------------|---|-------------------------------|
| Non Accredited Methods | | |
| NAM/ACSE/X24 | Conduct of Extraction for PBET Procedure for Metals in Soil | 10g |
| NAM/ACSE/X25 | Determination of Volatile Organic Compounds in Soils and Waters by GC/MS | 10g / 50ml |
| NAM/ACSE/X26 | Determination of Semi-volatile Organic Compounds by GC/MS | 50g / 1000ml |
| NAM/ACSE/X27 | Determination of Kjeldahl Nitrogen in Soils | 10g |
| NAM/ACSE/X29 | Determination of Soil Organic Matter / Carbon | 10g |
| NAM/ACSE/X30 | BTEX Range Hydrocarbons by GC / MS | 10g / 50ml |
| NAM/ACSE/X31 | Low Level TPH in Waters by Solid Phase Extraction | 1000ml |
| NAM/ACSE/X32 | Group Separation of Hydrocarbons for Speciated TPH Analysis | 50g / 50ml |
| NAM/ACSE/X34 | Acid Soluble Sulphate by ICP | 50g |
| NAM/ACSE/X35 | Free, Easily Liberated, Complex & Total Cyanide in Waters & Leachates by IC | 100ml |

| Method Number | Analysis | Sample Mass / Volume Required |
|-------------------------------|---|-------------------------------|
| Non Accredited Methods | | |
| NAM/ACSE/X36 | Determination of Settleable Solids using Imhoff Cone | 1000ml |
| NAM/ACSE/X37 | Determination of Reactivity of Liming Materials to BS EN 13971:2008 | 50g |
| NAM/ACSE/X38 | Loss on Ignition (Trommel Fines) | 1kg |

Please contact us if you require further information or assistance in the supply of suitable containers for your analysis.
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