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Proficiency testing provider accredited by NAH under No NAH-8-0003/2023.

WASTE TESTING

WORK INSTRUCTIONS
YEAR 2026 PROGRAMME
PT ID: QDJV-2

1. GENERAL INSTRUCTIONS

1.1. Storage of samples

Store unopened in a dry, cool place until processing.
For storage and handling of the samples, please follow the safety regulations applicable to laboratory chemicals, and handle the proficiency testing samples in the same manner as routine samples.

1.2. Sample preparation

Before opening, the contents of the containers must be thoroughly homogenized by shaking to eliminate possible clumping and other inhomogenities. Sample processing must be started immediately after opening.

Most results – with the exception of pH and electrical conductivity – shall be reported **relative to dry matter** (waste sample dried at 105 °C to constant mass).

The determination of dry matter content shall be carried out on a separate test portion.

Sample quantity: ~280 g
Particle size:

- for H1: < 200 µm
- for H2: < 120 µm

Sample preparation and measurement shall be performed according to the routine laboratory procedures, using the usual sample intake quantities. Due to the large number of parameters, the parameter groups are not indicated separately in the sample identification on the container; the uniform designation for all parameters is: **H-1 and H-2**.

2. SAMPLES

2.1. H-1 and H-2

The samples are air-dried, so-called "real samples

Sample ID	Analytes	Unit the results shall be reported
H-1 H-2	pH (25 °C) (1:10 aqueous extract)	pH unit
	electrical conductivity (25 °C) (1:10 aqueous extract)	µS/cm
	total dissolved solids (L/S = 10) (1:10 aqueous extract)	g/kg dry matter weight
	sulfate (SO_4^{2-}) (1:10 aqueous extract)	mg/kg dry matter weight
	fluoride (free) (F^-) (1:10 aqueous extract)	
	chloride (Cl^-) (1:10 aqueous extract)	
	barium (Ba) (1:10 aqueous extract)	
	arsenic (As) (aqua regia)	
	cadmium (Cd) (aqua regia)	
	cobalt (Co) (aqua regia)	
	chromium (Cr) (aqua regia)	
	copper (Cu) (aqua regia)	
	cadmium (Cd) (aqua regia)	
	molybdenum (Mo) (aqua regia)	
	nickel (Ni) (aqua regia)	
	lead (Pb) (aqua regia)	
	zinc (Zn) (1:10 aqueous extract)	

Note: Since the distributed samples are unspiked real samples, our preliminary investigations indicate that, for some participants, certain parameters may fall below the lower limit of quantification, particularly in the aqueous extract.

3. SUBMISSION OF RESULTS

Participants are requested to report the measured values together with their **expanded measurement uncertainty** (coverage factor k = 2), expressed in the **same unit** as the measurement results.
Results must be submitted electronically via www.qualcoduna.hu electronic submission portal.

Results submission steps:

- Open the website and select **Login to electronic services**.
- Log in to access the participant interface.
- Select Recording and viewing measurement results.
- After submission, a confirmation will be generated (save/print it).
- Keep and verify the confirmation.
- **Important**: if no confirmation appears, submission was not successful.

SUBMISSION DEADLINE: JULY 3, 2026 (FRIDAY)

Results submitted after the deadline, values marked with "<" or ">", or results in different units will not be considered. (Reference: ISO 13528:2022. Statistical methods for use in proficiency testing by interlaboratory comparisons).

Reporting zero ("0") as a result will be considered a physically incorrect value and will be evaluated.

Budapest, 21st May, 2026.

Dr. Norbert Mátrai
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