QualcoDuna Proficiency Testing Hungary Nonprofit Kft.
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Proficiency testing provider accredited by NAH under No NAH-8-0003/2023.

WASTEWATER SLUDGE/SEDIMENT/SOIL TESTING

WORK INSTRUCTIONS
YEAR 2026 PROGRAMME
PT ID: QDJV-2-2026

1. GENERAL INSTRUCTIONS

1.1. Storage of samples

The test samples consist of composite samples of soil and sewage sludge/sediment, which have been spiked with the analytes of interest.
The samples provided in brown screw-cap glass containers are air-dried. Upon receipt, they must be stored in a **cool, dry place (at 4 ± 2 °C)**, unopened, until analysis, taking care to avoid cross-contamination.
With regard to sample handling, please comply with laboratory safety regulations applicable to chemical substances, and treat the proficiency test samples in the same manner as routine samples commonly analysed in your laboratory.

1.2. Sample preparation

Before opening the containers, the contents must be thoroughly homogenised by **shaking**. The processing of the samples shall be initiated **within one week of receipt** (and immediately after opening).

The determination of **dry matter content** (at 105 °C) shall be carried out on a separate sub-sample.

The sample amount is approximately 18 g, with a particle size of <224 µm.

The results shall be **reported on a dry matter basis** (sample dried at 105 °C to constant mass), expressed in mg/kg (dry weight).

Recommended sample intake:

- PAH and PCB compound groups: 1–2 g
- EPH: 5 g

2. SAMPLES

2.1. ISZ/T-Org-1, ISZ/T-Org-2

SAMPLE-ID	Recommended sample mass	Parameters to be analysed	Expected concentration range (±15%)
ISZ/T-Org-1 ISZ/T-Org-2	1-2 g	Acenaphthene	0.01– 0.2 mg/kg dry matter content per parameter
		Acenaphthylene	
		Anthracene	
		Benzo(a)anthracene	
		Benzo(a)pyrene	
		Benzo(e)pyrene	
		Benzo(b)fluoranthene	
		Benzo(k)fluoranthene	
		Benzo(g,h,i)perylene	
		Dibenzo(a,h)anthracene	
		Phenanthrene	
		Fluoranthene	
		Fluorene	
		Indeno(1,2,3-cd)pyrene	
		Chrysene	
		Pyrene	
		PCB-28	0.01 – 0.15 mg/kg dry matter content per parameter t
		PCB-52	
		PCB-101	
		PCB-118	
		PCB-138	
		PCB-153	
		PCB-180	

2.2. ISZ/T-Org-3, ISZ/T-Org-4

Parameter to be analysed and expected concentration range:

EPH: C10–C40 carbon number range 50–1500 mg/kg (dry weight)

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.

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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
Head of Department