

## WASTEWATER SAMPLING PT sheme

### Guide

2025/M03

#### Dates for wastewater sampling proficiency testing in 2025:

**2<sup>nd</sup> October, 2025 (Thursday)**

**Location: 3594 Hejőpapi, Regional Waste Treatment Landfill**  
(Hejőpapi I. Waste Processing Center site)

**Deadline for registering the results of the on-site measurements on the online portal:**  
**03. October, 2025. (Friday) 16:00 pm.**

### 1. General requirements

1. The sampling exercise will take place at a designated section of the municipal waste leachate storage facility. The open storage facility can be accessed via steps built into its wall. The surface of the liquid is approximately 3 m deep, so a telescopic sampling container or rope is required for sampling. Sturdy shoes or boots suitable for field work are recommended, in case of rainy weather, rubber boots (see Point 6 for photos of the sampling site)
2. During the sampling exercise, it is essential to maintain continuous facility operations while strictly adhering to hygiene, health, fire safety, and occupational safety regulations. Please exercise extreme caution when moving through the storage area. Participation in the sampling activity is at each individual's own risk.
3. QualcoDuna Proficiency Testing Hungary Nonprofit Ltd. provides the containers, preservative (nitric acid will be included in the cationic sample container), filter, and sample transport. Laboratory tests are performed at the Eurofins Environment Testing Hungary Ltd. Laboratory.
4. Sampling will be carried out in groups of 5-6 people, at 60-minute intervals, on a single day.
5. The sample is a near-surface point sample taken by participants using their own equipment and standard routine methods.

Participants are required to perform the necessary on-site tests using their own instruments and record the results on their organization's sampling report form. The original copy of this report must be attached to the samples.

Measurement results must also be entered on the website [www.qualcoduna.hu](http://www.qualcoduna.hu) by selecting the "Electronic Administration" menu. This can be done either on the day of sampling or in the days following. **All data must be submitted no later than 16:00 PM on Wednesday, 03. October, 2025.**

To access the electronic administration page, participants should click on the Electronic Administration menu and log in using their username and password. From there, they can select "Record and View Measurement Results" to open the results data sheet.

Once the measurement data has been successfully submitted, a confirmation message will appear, indicating that the results have been recorded in the proficiency testing system. This confirmation can be printed or saved. If no confirmation appears, the submission was unsuccessful.

Please ensure that all data is entered using the correct unit of measurement.

Values marked with "<" and ">" submitted cannot be taken into account in the evaluation, and results given in units of measurement other than those on the data sheet will not be converted. (Reference: ISO 13528:2022. Statistical methods for use in proficiency testing by interlaboratory comparisons.)

Please note that if the Participant enters zero ("0") as the test result, the value will be considered a physically incorrect result and will be evaluated.

6. The disposal of waste chemicals generated during on-site investigations into the environment is strictly prohibited. To ensure compliance with environmental safety regulations, all participants are required to bring an appropriate container for the safe storage and transport of chemical waste.
7. Participants are required to prepare three identical laboratory samples for each analysis type: one set for cations and total phosphorus, and another for anions and total nitrogen. Please note that the container designated for cation analysis will contain nitric acid. Each sample container must be clearly labeled **with the name of the participant (entering proficiency testing sample code/Laboratory code is prohibited!)**.
8. Participants are required to retain one of the three prepared laboratory samples, which may be analyzed in their own laboratories if desired (this is optional). The remaining two samples must be handed over at the sampling site to a representative of QualcoDuna Proficiency Testing Hungary Nonprofit Ltd. These samples will be delivered to the Proficiency Testing Department, where name and address of participant is replaced by a unique code. From this step on, samples are solely identified by this code, in order to ensure confidentiality and privacy.
9. Of the two sample sets received by the Proficiency Testing Department, one pair—comprising the 'cations + total phosphorus' and 'anions + total nitrogen' samples—is analyzed at the laboratory of Eurofins Environment Testing Hungary Kft. The second pair is securely stored by the Proficiency Testing Department at a controlled temperature of  $4 \pm 3$  °C. These retained samples serve as reserves for potential re-analysis in the event of any discrepancies or issues identified during the initial testing.
10. Each participant will receive a unique proficiency testing code in a preliminary notification letter. This code must be treated as confidential and must not be disclosed to unauthorized individuals, in order to prevent any association between the organization's identity and its code. The participant code will be used exclusively to identify the organization in the final evaluation report, ensuring anonymity and impartiality throughout the proficiency testing process.

## **2. Sampling schedule:**

Sampling will be conducted over the course of a single day, in 60-minute intervals as outlined in the schedule below. At the designated sampling site, **Dr. Norbert Mátrai (+36 30 453 9471)** and **Dr. Adrienn Micsinai (+36 30 559 2531)**, representatives of the Proficiency Testing Department at QualcoDuna Proficiency Testing Hungary Nonprofit Kft., will be present to receive participants and coordinate the sampling activities.

**Sampling will take place on October 2, 2025, between 9:00 a.m. and 3:00 p.m. All participants have been informed of the sampling dates in advance!**

To ensure a smooth registration process and timely distribution of sampling containers, we kindly request all participants to arrive at the sampling site **at least 15 minutes** prior to their scheduled start time.

## **3. On-site inspections, sampling reports:**

Please check the following parameters on site:

- pH (corrected to 25°C),
- specific electrical conductivity (corrected to 25°C),
- water temperature.

The results of on-site inspections must also be recorded in the sampling reports, and the original copies of the reports must be attached to the samples. Participants must also record the results of on-site measurements on the web interface by the deadline.

## **4. Laboratory tests:**

Accredited laboratory testing of the collected wastewater samples will be performed by Eurofins Environment Testing Hungary Ltd., covering the following parameters: chloride ( $\text{Cl}^-$ ), sulfate ( $\text{SO}_4^{2-}$ ), total nitrogen (N), total phosphorus (P), calcium (Ca), cadmium (Cd), chromium (Cr), magnesium (Mg), nickel (Ni), lead (Pb), and zinc (Zn). For evaluation purposes, only those parameters present in well-measurable concentration ranges and determinable with low analytical uncertainty will be considered. The assessment will be based on these laboratory results, supplemented by on-site measurements of pH and specific electrical conductivity.

To reflect their critical role in field conditions, the results of the on-site measurements will be weighted double in the final evaluation.

## **5. Site location data:**

**SITE:** On the outskirts of Hejőpapi, between Hejőpapi and Hejőszalonta, at the site of the Hejőpapi I Waste Processing Center. GPS coordinate: É 47,91370°; K 20,86492°

**ADDRESS:** 3594 Hejőpapi, Regional Waste Treatment Landfill (see detailed map in point 6)

**Attention!** Please note that the Hejőpapi Waste Treatment Center, an other, independent facility, is located adjacent to the Hejőpapi I. Waste Processing Center, where the sampling exercise will take place. To avoid any confusion, we kindly ask all participants to ensure they select the correct destination when planning their arrival.

**6. Execution of sampling exercise (see also Section 6: Site Map):**

Sampling team vehicles must wait in the designated area on the side of the service road opposite the reservoir. We kindly ask participants to **park parallel to the road**. Sampling teams will approach the sampling site at their assigned time and in their designated groups, under the supervision of an on-site representative from QualcoDuna Proficiency Testing Hungary Nonprofit Kft. Sampling will be conducted simultaneously by the teams, positioned at appropriate distances from one another along the designated section, accessible via the staircase on the reservoir side. A **maximum of two members** from each sampling team may proceed to the reservoir at any given time.

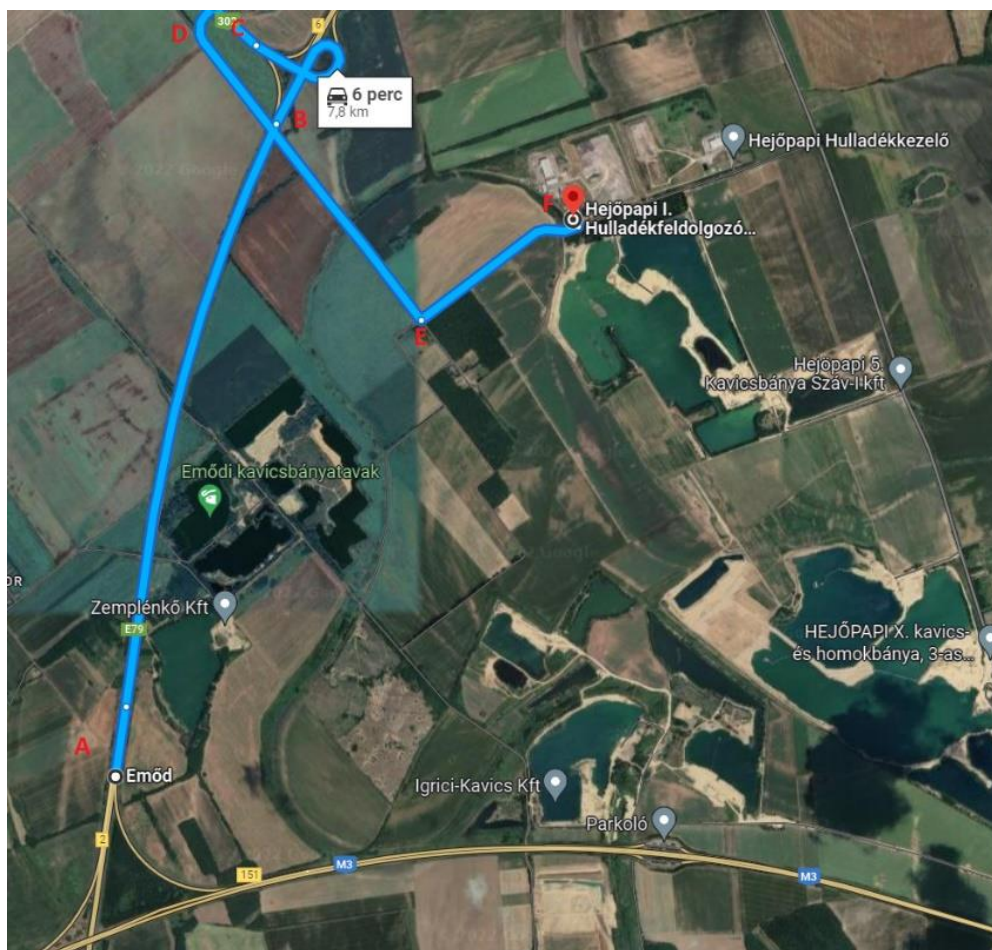
**We kindly ask all participants to comply with the relevant occupational safety regulations during the sampling activities.**

## **6. Sampling location – map and photo documentation**

The wastewater sampling location is indicated on the map below. The blue line marks one of the possible access routes to the work area labeled “F” (Hejőpapi I. Hulladékfeldolgozó Központ telephelye).

Point “A” marks Exit 151 of the M3 motorway, leading toward the E71/E79/M30 route (Miskolc/Slovakia). After exiting the motorway, continue approximately 2 km and turn off at Exit 6 (“B” point) toward Emőd, onto Route 302. Follow Route 302 for approximately 3 km until reaching an intersection, where the Highway Engineering Depot (Autópálya Mérnökség) is located on the right-hand side (“C” point). At this intersection, turn left. After approximately 120 meters, the road curves to the left, and a dirt road branches off to the right (“D” point). Continue on the paved road to the left. Passing the “PRIVATE ROAD!” (MAGÁNÚT) sign, you will arrive at the intersection marked “E”, where you should turn left and proceed to the work area labeled “F”.

The work area marked “F” is accessible by passenger car even after rainfall. For sampling, we recommend wearing stable, field-appropriate footwear such as sturdy shoes or boots; in rainy conditions, rubber boots are advised.



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„C” point: (turn left; on the right side is the Highway Engineering Depot (Autópálya Mérnökség)):



„D” point: (keep left):



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„E” point (keep left):



„F” point, entry to the site:



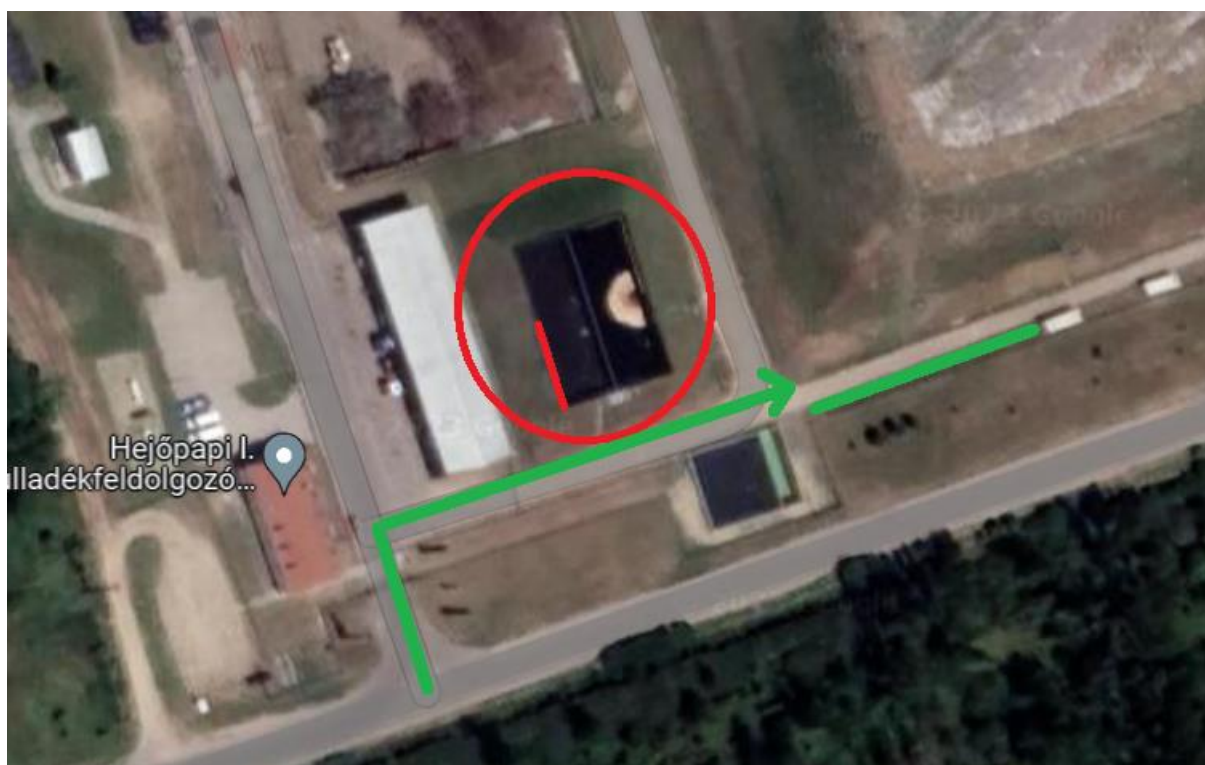
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After entering the site, turn right onto the service road and follow the direction indicated by the green arrow. Proceed along the road and park your vehicles parallel to it, within the section marked by the green line.

The reservoir to be sampled is marked with a red circle. Sampling will take place along the longitudinal side of the reservoir, within the section indicated by the red line.

Sampling teams will approach the designated sampling area at the scheduled time and in the assigned groups, under the guidance of the on-site representative of QualcoDuna Proficiency Testing Hungary Nonprofit Kft. Teams will ascend the stairs located on the side of the reservoir and position themselves along the marked section, maintaining appropriate distance from each other. Sampling will be conducted simultaneously. A maximum of two members from each team may access the reservoir area.

**We kindly ask all participants to arrive at least 15 minutes prior to the scheduled start time to allow for registration and distribution of sampling containers.**



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**The sampling location and the staircase used to access it**

(The designated parking area is marked with the letter “P” on the image.)



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**7. For further information regarding the sampling process, please contact:**

Dr. Norbert Mátrai coordinator  
QualcoDuna Proficiency Testing Hungary Nonprofit Kft.  
Tel: 06-1-872-3742  
Mobile: +36-30-453-9471

Budapest, 5th September 2025.



Dr. Norbert Mátrai  
Coordinator

**Change control**

| Version No | Date        | Description of changes |
|------------|-------------|------------------------|
| 01.        | 2025.09.05. | First release.         |
|            |             |                        |