



Bozhko Nataliia  
October 30<sup>th</sup> 2017

**PROFICIENCY TESTING PT.UA.4.1.2017**  
**WASTE WATER PROPERTIES**  
**PROFICIENCY TESTING PROGRAMME – ROUND 1(ENG)**

Kyiv-2017

## 1. INTRODUCTION

Given the key role of reliable test results, that are needed when determining physical and chemical properties of waste water, requirements for the competence of laboratories that perform such tests should be confirmed.

The purpose of proficiency testing in waste water testing is to determine the characteristics of the operation (as described in ISO\IEC 17043 [1-2]) and improve the reliability of test results.

This proficiency testing involves the use of inter-laboratory comparisons to confirm the performance of individual laboratories' abilities and/or identify areas of improvement.

The functioning management system Metrology service Ltd. (further - Provider) complies with ISO\IEC 17043:2010[1-2] requirements and covers all aspects of proficiency testing(further - PT) for all proficiency tests

## 2. DESCRIPTION

### 2.1. PARTICIPATION

2.1.1. Minimum methods for participation. Any organization, providing testing of pesticides in clause 2.2 may participate in this voluntary Program.

2.1.2. Participant may provide results for all the methods according to clause 2.2.

2.1.3. Metrology service Ltd. assigns a unique identification number to each participant that is confidential and reported only to this participant.

2.1.4. Participation fee for participants from Ukraine is 2 900.00 UAH without paying VAT. Participation fee for participants from outside of Ukraine is 150.00 USD without shipping.

### 2.2. METHODS

Participants can provide test results for the following methods:

	Property	Measure units	Recommended method
1	Chemical Oxygen Demand (COD)	mg O/dm <sup>3</sup>	
2	Ammonia as Nitrogen	mg/dm <sup>3</sup>	
3	Iron	mg/dm <sup>3</sup>	AAS
4	Copper	mg/dm <sup>3</sup>	AAS
5	Nickel	mg/dm <sup>3</sup>	AAS
6	Chromium	mg/dm <sup>3</sup>	AAS

### 2.3. SAMPLES

Metrology service Ltd. is using a validated procedure and appropriate technical experts and contractors for the selection, production, homogenization and division designs that is satisfactory for the purposes of this program. Tests, that are required to prove homogeneity and stability of samples are performed by competent contractors according to [3-7].

Metrology service Ltd .will send appropriately identified and packaged sample together with task sheet form for testing and reporting results via courier delivery service of Nova Poshta LLC or other delivery service chosen by participant.

**Preserved waste water in an amount of approximately 1 dm<sup>3</sup> will be used as a sample in round 1. Sample will be packed in PET bottle.**

## **2.4. SCHEME AND SCHEDULE**

2.4.1. This proficiency testing program is a simultaneous participation schemes according to A.3 of appendix A ISO\IEC 17043[1]. Selected samples, prepared according to clause 2.3, from a source of material being distributed simultaneously to participants for concurrent testing. After completion of the testing, the results are returned to Metrology service Ltd. Task sheet form for testing and reporting results is distributed with the sample according to clause 2.3. Metrology use statistical methods to analyze results and provide report according to clause.2.5.

2.4.2. Round 1 schedule.

Participants registration	<b>till 13-00 EET 12.01.2018</b>
Sample shipment	<b>15.01.2018</b>
Reporting results for participants	<b>till 13-00 EET 22.01.2018</b>
Report publication	<b>till 31.01.2018</b>

## **2.5. REPORT AND PROCESSING RESULTS**

2.5.1. Metrology service Ltd. processes and analyses results according to [1-6].

2.5.2. Metrology service Ltd. publishes the Proficiency testing report according to [1,2].

2.5.3. Proficiency testing report will be published in two languages – English and Ukrainian. Basic (reference) language is English.

2.5.4. For quantitative methods Provider will express Participant's results as traditional z-scores.

## **3. PARTICIPANT INFORMATION**

Participants must provide the following information by **e-mail in any form**:

1. Full name (English and/or Ukrainian), Bank details, address, registration number, detail of person, who will sign a contract;
2. Full name and address of laboratory (testing facility) if it is not equal to clause 1;
3. Address of shipment of samples or Nova Poshta LLC department number (with the choice of shipment type, DHL, etc.);
4. Participant contact person full name;
5. Contact telephone number (e.g. mobile) and e-mail address of the participant contact person.

## **4. PROVIDER CONTACTS AND PROGRAM MANAGER**

Metrology service Ltd., Ukraine, 03022, Kyiv, 45 Vasilkivska st., office 403.

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## **5. NORMATIVE REFERENCE**

1. ISO/IEC 17043:2010 Conformity assessment -- General requirements for proficiency testing
2. ДСТУ EN ISO/IEC 17043:2014 Оцінка відповідності. Загальні вимоги до перевірки кваліфікації лабораторій
3. ISO 13528:2015 Statistical methods for use in proficiency testing by interlaboratory comparisons
4. FOOD ANALYSIS PERFORMANCE ASSESSMENT SCHEME (FAPAS). Protocol for the organization and analysis of data, sixth edition, 2002
5. Fearn, T. and Thompson, M, A new test for 'sufficient homogeneity', Analyst, 2001, 126, 1414-1417
6. ISO Guide 35:2006 Reference materials -- General and statistical principles for certification
7. ILAC Discussion Paper on Homogeneity and Stability Testing, April 2008.