ESC GLOBAL Sp. z o.o.
Laboratory of Physicochemical Analysis
ul. Słoneczny Sad 4F
72-002 Dołuje
Poland
tel.: +48 91 43 40 158 w. 30

D-38a, issue 16

ANALYSIS REQUEST FORM

To be completed by the Client

Client:	
Invoice details:	
Contact Person:	
Sample delivery method: In person □ Shipment □	
REPORT DELIVERY METHOD (Number of Copies .....): □ Personal collection, □ By registered mail, □ By e-mail, □ By fax	
Purpose of Analysis: □ Process/Technological Control, □ Compliance with Legal Requirements, □ Other:.....	
Scope of Testing (Attachment on page 3)	
Testing fees are charged in accordance with the current price list or an accepted quotation.	

1. The required sample quantity depends on the type and scope of testing.
2. The Client has the right to witness the testing activities as an observer.
3. Statement of Compliance with Specifications or Requirements:

☐ Without compliance

☐ Confirmation of compliance of the obtained results with the specification or requirements*.....

The principle of making decisions

☐ Simple Acceptance – Compliance or non-compliance is determined solely on the basis of the measurement result, without taking measurement uncertainty into account in the decision rule, in accordance with ILAC-G8:09/2019

☐ Acceptance with Guard Band according to ILAC-G8:09/2019 "Guidelines on Decision Rules and Statements of Conformity". Measurement uncertainty is taken into account when assessing compliance. Compliance is confirmed when the measurement result, including the applicable guard band, remains within the specified acceptance limit(s). Where the measurement uncertainty overlaps the specification limit, compliance or non-compliance cannot be stated Measurement uncertainty is given every time.

4. Measurement uncertainty is reported with each test result.
5. The Client has the right to submit a written complaint
6. The Client accepts the test methods used by the Laboratory, as specified in the attachment to this order (page 3)
7. In the event of any deviation from this order, the Client will be informed before the testing is continued. The Client shall decide whether to accept the deviation
8. The Laboratory guarantees the impartiality of all testing activities
9. The Laboratory ensures that testing is performed in accordance with the applicable test methods and procedures.
10. The Laboratory ensures the confidentiality of all information related to the testing services
11. The Client authorizes the Laboratory to subcontract part or all of the testing and/or measurement services to a competent external provider that either complies with the requirements of PN-EN ISO/IEC 17025 or has documented competence to perform the assigned testing activities. Where testing is carried out by an accredited subcontractor, the accreditation number shall be included in the test report.

☐ YES ☐ NO

*Please specify the specification number or applicable requirement.

Client's Signature and Date

Laboratory Signature and Date

The ESC Global Sp. z o.o. Laboratory is not responsible for the sampling method, sampling location, or sample transportation conditions when these activities are not performed by the Laboratory. Such factors may have a direct impact on the validity and reliability of the test results.
The Laboratory shall not be held responsible for test results affected by incorrect, incomplete, or misleading information provided by the Client or persons acting on the Client's behalf.

ESC GLOBAL Sp. z o.o.
Laboratory of Physicochemical Analysis
ul. Słoneczny Sad 4F
72-002 Dołuje
Poland
tel.: +48 91 43 40 158 w. 30

CLIENT SAMPLE IDENTIFICATION (TO BE COMPLETED BY THE CLIENT)

No.	Sample Identification (provided by the Client)	Sample Type *(e.g.: water, residue)*	Sampling Location	Sampling Date	Test code (Annex 1)	Acidified sample YES/NO	Remarks**

***To be completed only when the requested test parameters are not included in Annex No. 1.*

The ESC Global Sp. z o.o. Laboratory is not responsible for the sampling method, sampling location, or sample transportation conditions when these activities are not performed by the Laboratory. Such factors may have a direct impact on the validity and reliability of the test results.
The Laboratory shall not be held responsible for test results affected by incorrect, incomplete, or misleading information provided by the Client or persons acting on the Client's behalf.

ESC GLOBAL Sp. z o.o.
Laboratory of Physicochemical Analysis
ul. Słoneczny Sad 4F
72-002 Dołuje
Poland
tel.: +48 91 43 40 158 w. 30

ANNEX NO. 1 – LIST OF TESTED PARAMETERS AND TEST CODES

Test parameters	Test code	Analysis no.	Analysis parameters	Status method
Basic water parameters	**PW**	**1**	**Conductivity** Range: 25 – 10 000 µS/ cm Conductivity method; PN – EN 27888:1999	**A**
		2[1]	**Total hardness** Range: 2,8 – 20 °dH Spectrophotometric method, HACH LCK Nr 327, edition 1 07/2019	**A**
			Residual hardness Range: 0,02 – 0,6 °dH Spectrophotometric method, HACH LCK Nr 427, edition 1 11/2021	**Q**
		3	**Chlorides** Range: 3 – 1000 mg/l Cl^- Spectrophotometric method HACH LCK Nr 311, edition 3 04/2022	**A**
			Chlorides Range: 1,0 – 1000 mg/l Cl^- Ion chromatography method with conductometric detection IC; PN – EN ISO 10304 – 1: 2009+AC:2012	**A**
		4	**Silica** Range: 5 – 100 mg/l SiO_2 Spectrophotometric method, HACH Nr 8185, edition 10 10/2023	**A**
			Silica Range: 0,01 – 0,8 mg/l SiO_2 Spectrophotometric method, HACH Nr LCW 028, edition 1 11/2019	**Q**
		5	**Manganese** Range: 0,008 – 0,5 mg/l Mn Spectrophotometric method, HACH LCW Nr 532, edition 1 03/2020	**A**
		6[1]	**Iron** Range: 0,35 – 6,0 mg/l $Fe^{2+/3+/tot.}$ Spectrophotometric method, HACH LCK Nr 320, edition 2 06/2025	**A**
			Iron Range: 0,005 – 0,250 mg/l Fe Spectrophotometric method, HACH LCK Nr 021, edition 3 03/2022	**Q**
		7	**Alkalinity P** Range: 10 – 500 mg/l $CaCO_3$ Titration method, potentiometric titration PN – EN ISO 9963 – 1: 2001	**Q**
		8	**Alkalinity total (M)** Range 50 - 500 mg/l $CaCO_3$ Titration method, potentiometric titration PN – EN ISO 9963 – 1: 2001	**Q**
		9	**Determination pH** Range: 2.0 – 14.0 Potentiometric method PN – EN ISO 10523:2012	**Q**
		10	**Phosphate** Range: 1,0 – 100 mg/L PO_4^{3-} Ion chromatography method with conductometric detection IC; PN – EN ISO 10304 – 1: 2009+AC:2012	**A**
			Phosphate Range: 5 – 90 mg/L PO_4^{3-} Spectrophotometric method HACH LCK Nr 049, edition 2 08/2025	**Q**
		11	**Sulphate** Range: 0 – 200 mg/l SO_4^{2-} Ion chromatography method with conductometric detection IC; PN – EN ISO 10304 – 1: 2009+AC:2012	**A**
			Sulphate Range: 0 – 200 mg/l SO_4^{2-} Photometric method, Palintest Nr 32, V1 – 10/05	**Q**
		12	**Nitrate** Range: 0,1 – 100 mg/l NO_3^- Ion chromatography method with conductometric detection IC; PN – EN ISO 10304 – 1: 2009+AC:2012	**A**
			Nitrate Range: 0,1 – 48 mg/l NO_3^- Photometric method , PrimeLab Nr 34	**Q**
		13	**Nitrite** Range: 0,1 – 10 mg/l NO_2^- Ion chromatography method with conductometric detection IC; PN – EN ISO 10304 – 1: 2009+AC:2012	**A**
			Nitrite Range: 0,1 – 0,5 mg/l NO_2^- Photometric method ,PrimeLab Nr 35	**Q**
		14	**Suspended solids** Range: 2 – 1 000 mg/l Method: filtration / PN – EN 872:2007	**Q**
		15	**Magnesium** Range: 3 – 50 mg/l Mg Spectrophotometric method, HACH LCK Nr 327, edition 1 07/2019	**Q**
		16	**Calcium** Range: 5 – 100 mg/l Ca Spectrophotometric method, HACH LCK Nr 327, edition 1 07/2019	**Q**
		17	**Calcium hardness** Range: 0 – 500 mg/l $CaCO_3$ Photometric method, Palintest Nr 12, V1 – 10/05	**-**
		18	**Sulphite** Range: 1 – 500 mg/l Na_2SO_3 Photometric method, Palintest Nr 34, V1 – 10/05	**-**
		19	**Chlorine dioxide** Range: 0,1 – 9,5 mg/l ClO_2 Photometric method Palintest Nr 7,3, V4 – 12/11	**-**
		20	**Free Chlorine** Range: 0,02 – 5,0 mg/l Photometric method Palintest Nr 7, V1 – 10/05	**-**
		21	**Polyacrylates** Range: 1 – 30 mg/l Photometric method PrimeLab Nr 85,	**-**

A – Accredited method Q – Non-accredited method performed under the Laboratory's management system

The ESC Global Sp. z o.o. Laboratory is not responsible for the sampling method, sampling location, or sample transportation conditions when these activities are not performed by the Laboratory. Such factors may have a direct impact on the validity and reliability of the test results.
The Laboratory shall not be held responsible for test results affected by incorrect, incomplete, or misleading information provided by the Client or persons acting on the Client's behalf.

ESC GLOBAL Sp. z o.o.
Laboratory of Physicochemical Analysis
ul. Słoneczny Sad 4F
72-002 Dołuje
Poland
tel.: +48 91 43 40 158 w. 30

Test parameters	Test code	Analysis no.	Analysis parameters	Status method
Basic water parameters	**PW**	**22**	**Organophosphonate** Range: 0,2 – 125 mg/l PO_4 Spectrophotometric method, HACH Method 8007, edition 10 12/2021	-
		23	**Molybdate** Range: 0 – 100 mg/l MoO_4 Photometric method, Palintest Nr 22,V1 – 10 /05	-
		24	**Turbidity** Range 0,02 – 1000 NTU Photometric method PrimeLab Nr 112	-
		25	**Colour** Range 10 – 500 mg/l Pt Photometric method Palintest Nr 47 V1 – 1 0/05	-
		26	**Ammonium ion** Range: 0,1 – 1 mg/l NH_4^+ Photometric method , Primelab No2	-
Analysis of elements in industrial and raw water	**IW**		**Element concentration** Range: Ag, Al, Ba, Cr, Mn, Ni, Pb, Zn (0,1 – 50) mg/l Fe, Mg, P (0,1 – 1000) mg/l Ca (0,2 – 1500) mg/l Cd (0,2 – 50) mg/l Cu (0,1 – 2500) mg/l K (1 – 1000) mg/l Na (1 – 1500) mg/l S (1 – 100) mg/l Si (0,2 – 1000) mg/l Inductively Coupled Plasma -Optical Emission Spectrometry Method (ICP-OES) PN – EN ISO 11885: 2009	**A**
			Range: K (0,2 – 1) mg/l Na (0,5 – 1) mg/l S (0,5 – 1) mg/l Inductively Coupled Plasma -Optical Emission Spectrometry Method (ICP-OES) PN – EN ISO 11885: 2009	**Q**
Analysis of TOC for industrial and raw water	**TW**		**Content Total Organic Carbon (TOC)** Range: (2 – 1000) mg/l C Infrared spectroscopy method PN - EN 1484:1997	**A**
Analysis of TOC in deposit boiler scale	**TO**		**Content Total Organic Carbon (TOC)** Range: (0,50 – 50) % Infrared spectroscopy method PN – EN 15936 :2022	**Q**
Analysis of elements in deposit boiler scale	**IO**		**Element concentration** Range: Al (30 – 250000) mg/kg Ba, Pb (10 – 1500) mg/kg Cr, Cu, Mn (10 – 3500) mg/kg Ca (20 – 400 000) mg/kg Cd (10 – 200) mg/kg Fe (70 – 650 000) mg/kg K (10 – 35 000) mg/kg Mg (10 – 200 000) mg/kg Na (30 – 400 000) mg/kg Ni (10 – 2500) mg/kg P (20 – 110 000) mg/kg S (30 – 150 000) mg/kg Si (30 – 10 000) mg/kg Zn (10 – 10 000) mg/kg Inductively Coupled Plasma -Optical Emission Spectrometry Method (ICP-OES) PN – EN ISO PN – EN ISO 22036:2024 – 07	**A**
Resin	**R**		Iron ions in ion-exchange resins mg/l **IRON EXCHANGE RESIN FOULING TEST KIT RTK 001**	-

A – Accredited method Q – Non-accredited method performed under the Laboratory's management system

[1] - If the result falls outside the measurement range of the selected method, the Client agrees that the Laboratory may use another available method with an appropriate measurement range. The result will be reported with an indication of the method used and its accreditation status.

The ESC Global Sp. z o.o. Laboratory is not responsible for the sampling method, sampling location, or sample transportation conditions when these activities are not performed by the Laboratory. Such factors may have a direct impact on the validity and reliability of the test results.
The Laboratory shall not be held responsible for test results affected by incorrect, incomplete, or misleading information provided by the Client or persons acting on the Client's behalf.