The Appendix is an integral part of
Certificate of Accreditation No. 616/2024 of 21/11/2024

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

Výzkumný ústav vodohospodářský T. G. Masaryka, veřejná výzkumná instituce
CAB number 1492, Testing Laboratory for Environmental Technology and Components
VÚV TGM, v. v. i.
Podbabská 2582/30, 160 00 Praha 6 - Dejvice

Testing laboratory working site:

1.	**Water Plant Testing Laboratory**	Praha 6, Podbabská 2582/30
2.	**Basic Chemical Analysis Department**	Praha 6, Podbabská 2582/30
3.	**Department of Hydrochemistry**	Praha 6, Podbabská 2582/30
4.	**Department of Water Microbiology and Hydrobiology**	Praha 6, Podbabská 2582/30
5.	**Department of Radioecology**	Praha 6, Podbabská 2582/30

The laboratory applies a flexible approach to the scope of accreditation.
The current list of activities carried out within the flexible scope is available on the laboratory's website www.vuv.cz/zkouseni in the form of the „List of activities within the flexible scope of accreditation".
The laboratory is qualified to carry out standalone sampling.
Detailed information on activities within the scope of accreditation (determined analytes / source literature) is given in the section „Specification of the scope of accreditation".

1. Water Plant Testing Laboratory

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of suspended solids by gravimetric method and calculation of treatment efficiency of WWTP from measured values of specified parameters	ZLVZ1 (ČSN EN 12566-3+A2:2014, annex B; ČSN EN 12566-3, annex B; ČSN EN 872)	Waste water, sludge	B
2	Determination of suspended solids by gravimetric method and calculation of second level treatment efficiency of WWTP from measured values of specified parameters	ZLVZ4 (ČSN EN 12566-6:2013, annex A; ČSN EN 12566-6, annex A; ČSN EN 872)	Waste water, sludge	B

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
1	pH, electrical conductivity, COD_{Cr}, BOD_5, P_c, $P\text{-}PO_4^{3-}$, $N\text{-}NO_2^-$, $N\text{-}NO_3^-$, $N\text{-}NH_4^+$, N_c, water temperature, dissolved oxygen, $ANC_{4,5}$, sludge volume index, *Escherichia coli*, thermotolerant coliforms, coliforms, intestinal enterococci
2	pH, electrical conductivity, COD_{Cr}, BOD_5, P_c, $P\text{-}PO_4^{3-}$, $N\text{-}NO_2^-$, $N\text{-}NO_3^-$, $N\text{-}NH_4^+$, N_c, water temperature, dissolved oxygen, $ANC_{4,5}$, sludge volume index, *Escherichia coli*, thermotolerant coliforms, coliforms, intestinal enterococci

2. Basic Chemical Analysis Department

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of chemical oxygen demand (COD_{Cr}) by spectrophotometric method	ZCH1 (ČSN ISO 15705)	Waste water, surface and ground water	A
2	Determination of biochemical oxygen demand (BOD_5) electrochemically using dilution method and method for undiluted samples	ZCH2 (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Waste water, surface and ground water	A
3	Determination of suspended solids (SS105, SS550) and loss of ignition of suspended solids by gravimetric method	ZCH3 (ČSN EN 872; ČSN 75 7350)	Waste water, surface, drinking and ground water, liquid sludge and sediments	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4	Determination of ammonium ($NH4^+$) by spectrophotometric method and ammonia nitrogen (N-NH_4^+), undissociated (free) ammonia (NH_3) and inorganic nitrogen ($N_{inorg.}$) by calculation from measured values	ZCH4 (ČSN ISO 7150-1; FISH. RES. BOARD 1975; Emerson et al)	Waste water, surface, drinking, ground water and rainwater	A
5	Determination of nitrite (NO_2^-) by spectrophotometry and calculation of nitrite nitrogen (N-NO_2^-) from measured values	ZCH5 (ČSN EN 26777)	Waste water, surface, drinking and ground water	A
6	Determination of nitrate (NO_3^-) by spectrophotometry and nitrate nitrogen (N-NO_3^-) by calculation from measured values	ZCH6 (ČSN ISO 7890-3)	Waste water, surface, drinking, ground water and rainwater	A
7	Determination of phosphate (PO_4^{3-}) and total phosphorus (P_t) by spectrophotometry and calculation of phosphate phosphorus (P-PO_4^{3-}) from measured values	ZCH8 (ČSN EN ISO 6878, chap. 4 and chap. 7)	Waste water, surface, drinking, ground water and rainwater	A
8*	Determination of pH by potentiometric method	ZCH9 (ČSN ISO 10523)	Waste water, surface, drinking, ground water and liquid sludge, water leach	A
9*	Determination of electrical conductivity	ZCH10 (ČSN EN 27888)	Waste water, surface, drinking water, rainwater and ground water, water leach	A
10	Determination of dissolved solids (DS105, DS550 and DIS) by gravimetric method	ZCH11 (ČSN 75 7346; ČSN 75 7347)	Waste water, surface, drinking water, rainwater and ground water, water leach	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
11*	Determination of dissolved oxygen by electrochemical method	ZCH12 (ČSN EN ISO 5814)	Waste water, surface, drinking water and ground water, liquid sludge	A
12	Determination of absorbance (A_{254}) by spectrophotometry	ZCH14 (ČSN 75 7360)	Surface, drinking water, rainwater and ground water	A
13	Determination of turbidity by turbidimetric method	ZCH15 (ČSN EN ISO 7027-1, chap. 5.4)	Surface, drinking water, rainwater and ground water	A
14	Determination of chemical oxygen demand by permanganate (COD_{Mn}) by titration	ZCH16 (ČSN EN ISO 8467)	Surface, drinking water, rainwater and ground water	A
15	Determination of acid neutralizing capacity ($ANC_{4,5}$ and $ANC_{8,3}$) by titration	ZCH20 (ČSN EN ISO 9963-1)	Waste water, surface, drinking water, rainwater and ground water	A
16*	Determination of water temperature	ZCH26 (ČSN 75 7342)	Waste water, surface, drinking and ground water and liquid sludge	A
17	Determination of chemical oxygen demand (COD_{Cr}) using HACH set	ZCH27 (HACH manual)	Waste water, surface water, ground water and rainwater	A
18*	Determination of dissolved oxygen by luminescent method	ZCH30 (ČSN ISO 17289, HACH manual WTW manual)	Surface, drinking water, rainwater and ground water	A
19	Determination of colour by spectrophotometry	ZCH34 (ČSN EN ISO 7887)	Waste water, surface, rain, drinking and ground water	A
20	Determination of dry matter and loss of ignition by gravimetric method	ZCH37 (ČSN EN 12880; ČSN ISO 11465; ČSN EN 15934; ČSN EN 15935)	Soil, dirt, sludge, sediments	A

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
4	Emerson, K., Russo, R.C., Lund, R.E. and Thurston, R.V. (1975) Aqueous Ammonia Equilibrium Calculations: Effect of pH and Temperature. Journal of the Fisheries Research Board of Canada, 32, 2379-2383

3. Department of Hydrochemistry

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of fluoride, chloride, sulfate and nitrate by method of ion chromatography and calculation of nitrate nitrogen (N-NO3) from measured values	ZCH31 (ČSN EN ISO 10304-1)	Waste, surface water, rainwater, drinking and ground water, water leach	A, B
2	Determination of total nitrogen by chemiluminescence and organic nitrogen (N_{org}) by calculation from measured values	ZCH32 (ČSN EN ISO 20236)	Waste, surface water, rainwater, drinking and ground water, water leach	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
3	Determination of content of metals by ICP-OES method and the sum of Ca + Mg by calculation from measured values	SAA2 (ČSN EN ISO 11885)	Waste, surface water, rainwater, drinking and ground water, water leach	A, B
4	Determination of content of metals by ICP-OES method	SAA3 (ČSN EN ISO 22036)	Sludge, industrial compost, soil, dirt, sediments	A, B
5	Determination of content of metals by ETA-AAS method	SAA6 (ČSN EN ISO 15586)	Drinking, surface, ground water and rainwater and waste water, water leach	A, B
6	Determination of selected illicit drugs using liquid chromatography coupled to positive electrospray tandem mass spectrometry	SOA24 (Anal. Chem., 2008, 80(9); Očenášková et al., CEMC, 2015; Rapid Commun. Mass Spectrom. 2013, 27)	Waste, surface and ground water	A, B
7	Determination of selected illicit drugs using liquid chromatography coupled to negative electrospray tandem mass spectrometry	SOA25 (Anal. Chem., 2008, 80(9); LCGC North America, 2011, 29(7))	Waste, surface and ground water	A, B

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
3	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn
4	Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Tl, V, Zn

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Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
5	Ag, As, Be, Cd, Co, Cr, Cu, Mo, Ni, Pb, Sb, Sn, Se, V
6	Amphetamine, Methamphetamine, Extasy, Heroin, 6-Acetylmorphine, Morphine, Cocaine, Cocaethylene, Benzoylecgonine, Buprenorphine, Methadone, EDDP, Ephedrine, Tramadol, Nicotine, Cotinine, Trans-3-hydroxycotinine
7	11-nor-9-carboxy-delta-9-THC (nor-THC), ethyl sulphate (EtS)

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
6	Postigo, Cristina, Maria J. Lopez de Alda a Damià Barceló. Fully Automated Determination in the Low Nanogram per Liter Level of Different Classes of Drugs of Abuse in Sewage Water by On-Line Solid-Phase Extraction-Liquid Chromatography−Electrospray-Tandem Mass Spectrometry. Analytical Chemistry. 2008, 80(9), 3123-3134. DOI: 10.1021/ac702060j. ISSN 0003-2700. Očenášková, V. a kol.: Metodika aplikace epidemiologie odpadních vod pro stanovení odnosu nezákonných látek (drog) v České republice. Certifikovalo České ekologické manažerské centrum, 28. pluku 524/25, 101 00 Praha 10. Certifikováno 29. 12. 2015. (Methodology of the application of wastewater epidemiology for the determination of illicit substances (drugs) in the Czech Republic. Certified by the Czech Environment Management Center, 28. pluku 524/25, 101 00 Praha 10. Certified on 29/12/2015) Fedorova, G., Randak, T., Lindberg, R.H. and Grabic, R.: Comparison of the quantitative performance of a Q-Exactive high-resolution mass spectrometer with that of a triple quadrupole tandem mass spectrometer for the analysis of illicit drugs in wastewater, Rapid Commun. Mass Spectrom. 2013, 27, 1751–1762.
7	Postigo, Cristina, Maria J. Lopez de Alda a Damià Barceló. Fully Automated Determination in the Low Nanogram per Liter Level of Different Classes of Drugs of Abuse in Sewage Water by On-Line Solid-Phase Extraction-Liquid Chromatography−Electrospray-Tandem Mass Spectrometry. Analytical Chemistry. 2008, 80(9), 3123-3134. DOI: 10.1021/ac702060j. ISSN 0003-2700. Li, S., Layne, J., Countryman, S., McGinley, M.: A Sensitive, Specific, Accurate, and Fast LC-MS-MS Method for Measurement of 42 Ethyl Glucuronide and Ethyl Sulfate in Human Urine. LCGC North America,(Jul 01, 2011), Volume 29, Issue 7.

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4. **Department of Water Microbiology and Hydrobiology**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Detection and enumeration of coliform bacteria by membrane filtration method	MB1 (ČSN 75 7837)	Waste water, surface, drinking and ground water	A
2	Detection and enumeration of coliform bacteria and *Escherichia coli* by membrane filtration method	MB2 (ČSN EN ISO 9308-1)	Drinking, ground water, bathing water	A
3	Detection and enumeration of thermo tolerant coliform bacteria and *Escherichia coli* by membrane filtration method	MB3 (ČSN 75 7835)	Waste water, surface, drinking and ground water	A
4	Detection and enumeration of intestinal enterococci by membrane filtration method	MB4 (ČSN EN ISO 7899-2)	Waste water, drinking, ground water and bathing water	A
5	Enumeration of culturable microorganism at 22 °C and 36 °C by inoculation in a nutrient agar culture medium	MB7 (ČSN EN ISO 6222)	Surface, drinking and ground water, soils	A
6	Enumeration of *Clostridium perfringens* by membrane filtration method	MB8 (Decree No. 252/2004 Coll., Annex 6)	Surface and drinking water	A
7	Detection and enumeration of thermo tolerant coliform bacteria and *Escherichia coli* by direct inoculation method	MB10 (AHEM 7/2001; AHEM 1/2008)	Drained sludge, compost, sediments	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
8	Detection and enumeration of enterococci by direct inoculation method	MB11 (AHEM 7/2001; AHEM 1/2008)	Drained sludge, compost, sediments	A
9	Enumeration of coliform bacteria and *Escherichia coli* by most probable number method	MB17 (ČSN EN ISO 9308-2)	Drinking, surface and ground water	A
10	Qualitative and quantitative determination of bioseston by microscopic method including determination of physiological status of organisms and determination of saprobic index by calculation	HB1 (ČSN 75 7712; ČSN 75 7716)	Surface, drinking water and ground water	A
11	Determination of abioseston by microscopic method	HB3 (ČSN 75 7713)	Surface, drinking water and ground water	A
12	Determination of chlorophyll-a and phaeopigments by spectrophotometric method	HB4 (ČSN ISO 10260)	Surface and drinking water, biofilms and culture of autotrophic microorganisms	A

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5. **Department of Radioecology**

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	Determination of gross alpha activity by scintillation method	RA1 (ČSN 75 7611)	Surface, drinking and ground water	A
2	Determination of gross beta activity by gas flow proportional detector	RA2 (ČSN 75 7612)	Waste water, surface, drinking and ground water	A
3	Determination of radon-222 activity concentration by emanometry	RA3 (ČSN 75 7624)	Waste water, surface, drinking and ground water	A
4	Determination of radium-226 activity concentration by emanometry	RA5 (ČSN 75 7623)	Waste water, surface, drinking and ground water	A
5	Determination of radionuclides emitting gamma rays by gamma-ray spectrometry using germanium detector with high energy resolution in combination with a multichannel analyser	RA6 (ČSN EN ISO 10703)	Waste water, surface, drinking and ground water, sediments, sludge, WTP sand, water plants and water organisms	A, B
6	Determination of tritium activity concentration by liquid scintillation spectrometry	RA7 (ČSN EN ISO 9698)	Waste water, surface water, rainwater, drinking and ground water	A
7	Determination of polonium-210 activity concentration by scintillation method	RA8 (ČSN 75 7626)	Waste water, surface, drinking and ground water	A
8	Determination of strontium-90 activity concentration by oxalate method, measuring the daughter product of ytrium-90 by gas flow proportional detector	RA9 (Methods for radiochemical analysis of water 1973)	Waste water, surface, ground water sediments, water plants and water organisms	A

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
9	Determination of uranium by phosphorescence method	RA12 (Lumex manual)	Waste water, surface, drinking and ground water	A
10	Determination of gross alpha activity – measurement of annealing residue by a proportional counter	RA16 (ČSN 75 7611)	Surface, ground and waste water	A

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Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	kolektiv autorů: Metody radiochemického rozboru vod. Bulletin metodického střediska vodohospodářských laboratoří č. 22. Praha 1973 (Collective of authors: Methods of radiochemical analysis of water. Bulletin of the Methodological Centre of Water Management Laboratories No. 22. Prague 1973)

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Manual waste water sampling	VZ1a (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 75 7315; ČSN EN ISO 19458)	Waste water

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Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
2	Automatic waste water sampling	VZ1b (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN 75 7315)	Waste water
3	Surface water sampling	VZ2 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 19458)	Surface water
4	Sampling of liquid sludge	VZ3 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN EN ISO 5667-13; ČSN EN ISO 5667-14; ČSN EN ISO 5667-15)	Liquid sludge
5	Sampling of soil, dirt, solid sludge and sediments	VZ6 (ČSN EN ISO 5667-1; ČSN ISO 5667-12; ČSN EN ISO 5667-13; ČSN EN ISO 5667-14; ČSN EN ISO 5667-15)	Solid sludge, sediments

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