

**The Appendix is an integral part of
Certificate of Accreditation No. 353/2024 of 22/07/2024**

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

Povodí Vltavy, státní podnik
CAB number 1252, Water Management Laboratory in Plzeň
Denisovo nábřeží 14, 301 00 Plzeň

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.pvl.cz/laboratoře-povodi-vltavy/informace-pro-zakazniky in the form of the „List of activities within the flexible scope of accreditation“.

The laboratory provides opinions and interpretations of the test results.

The laboratory is qualified to carry out standalone sampling.

Detailed information on activities within the scope of accreditation (determined analytes / subject of sampling / source literature) is given in the section „Specification of the scope of accreditation“.

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1*	Determination of pH by potentiometry	SOP Z-1a-A (ČSN ISO 10523)	Drinking, surface, ground and waste water, aqueous extracts	A, D
2	Determination of (ANC) by titration and calculation of CO ₂ forms from measured values	SOP Z-2a-A (ČSN EN ISO 9963-1)	Drinking, surface, ground and waste water	A, D
3*	Determination of electrical conductivity by conductometry	SOP Z-4a-A (ČSN EN 27888)	Drinking, surface, ground and waste water	A, D
4	Determination of absorbance by spectrophotometry	SOP Z-5a-A (ČSN 75 7360)	Drinking, surface and ground water	A, D
5*	Determination of turbidity by nephelometry	SOP Z-6a-A (ČSN EN ISO 7027-1)	Drinking, surface and ground water	A, D
6	Determination of dissolved solids by gravimetry and loss on ignition by calculation from measured values	SOP Z-7a-A (ČSN 75 7346; ČSN 75 7347)	Surface, ground and waste water, aqueous extracts	A, D
7	Determination of suspended solids by gravimetry and loss on ignition by calculation from measured values	SOP Z-7b-A (ČSN 75 7350; ČSN EN 872)	Surface, ground and waste water	A, D
8	Determination of dry residue by gravimetry and loss on ignition	SOP Z-33-B (ČSN EN 15934; ČSN EN 15935)	Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste	D
9	Determination of BOD _n with the determination of dissolved oxygen by electrochemical method	SOP Z-9b-A (ČSN EN ISO 5815-1; ČSN EN 1899-2)	Surface, ground and waste water	A, D
10	Determination of COD _{Mn} by titration	SOP Z-10b-A (ČSN EN ISO 8467-Z1)	Drinking, ground and surface water	A, D
11	Determination of COD _{Cr} by spectrophotometry - MERCK analytical commercial set	SOP Z-11b-A (ČSN ISO 15705; MERCK manual)	Surface, ground and waste water	A, D

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12	Determination of the sum of calcium and magnesium by titration	SOP Z-21b-A (ČSN ISO 6059)	Drinking, ground and surface water	A, D
13	Determination of total and free cyanide by CFA method	SOP Z-39a-A (ČSN EN ISO 14403-2)	Drinking, surface, ground and waste water	A, D
14	Determination of ammonia nitrogen by CFA method and calculation of ammonium from measured values	SOP Z-12c-A (ČSN EN ISO 11732)	Drinking, surface, ground and waste water	A, D
15	Determination of nitrite nitrogen by CFA method and calculation of nitrite from measured values	SOP Z-13c-A (ČSN EN ISO 13395)	Drinking, surface, ground and waste water	A, D
16	Determination of nitrate nitrogen by CFA method and calculation of nitrate from measured values	SOP Z-14e-A (ČSN EN ISO 13395)	Drinking, surface, ground and waste water	A, D
17	Determination of total nitrogen by CFA method and calculation of inorganic and organic nitrogen from measured values	SOP Z-16c-A (ČSN EN ISO 11905-1; ČSN EN ISO 13395; ČSN ISO 29441)	Drinking, surface, ground and waste water	A, D
18	Determination of phosphate phosphorus by CFA method and calculation of phosphate from measured values	SOP Z-17c-A (ČSN EN ISO 15681-2)	Drinking, surface, ground and waste water	A, D
19	Determination of total phosphorus by CFA method	SOP Z-18d-A (ČSN EN ISO 15681-2)	Drinking, surface, ground and waste water	A, D
20	Determination of sulphate by CFA method	SOP Z-20e-A (ČSN ISO 22743)	Drinking, surface, ground and waste water, aqueous extracts	A, D
21	Determination of chlorides by CFA method	SOP Z-19c-A (ČSN EN ISO 15682)	Drinking, surface, ground and waste water, aqueous extracts	A, D
22*	Determination of dissolved oxygen by optical sensor method and calculation of saturation percentage	SOP Z-8c-A (ČSN EN ISO 17289)	Surface water	A, D
23	Determination of colour by spectrophotometry	SOP Z-23b-A (ČSN EN ISO 7887)	Drinking, surface, ground and waste water	A, D
24*	Determination of free and total chlorine by spectrophotometry - HACH analytical commercial set	SOP Z-28b-A (ČSN EN ISO 7393-2; HACH manual)	Drinking and surface water	A, D
25*	Determination of water temperature	SOP Z-22a-A (ČSN 75 7342)	Drinking, surface and waste water	A, D
26*	Determination of transparency by Secchi disc	SOP Z-26a-A (ČSN 75 7340; ČSN EN ISO 7027-2)	Surface water	-

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27	Detection and enumeration of coliform bacteria and <i>Escherichia coli</i> by most probable number method	SOP B-9-A (ČSN EN ISO 9308-2)	Drinking and surface water	-
28	Enumeration of culturable microorganisms at 22°C at 36°C by inoculation in a nutrient agar culture medium	SOP B-13-A (ČSN EN ISO 6222)	Drinking, surface and waste water	-
29	Determination of bioseston - zooplankton microscopically	SOP B-5 (ČSN 75 7712; ČSN EN 15110; Method 1)	Surface water	-
30	Determination of net plankton microscopically	SOP B-6 (ČSN 75 7712)	Surface water	-
31	Determination of bioseston – phytoplankton microscopically and calculation of phytoplankton saprobic index	SOP B-1 (ČSN 75 7712; ČSN 75 7716; ČSN 75 7717; ČSN EN 15204; Method 2; Method 3)	Drinking and surface water	-
32	Determination of abioseston microscopically	SOP B-2 (ČSN 75 7713)	Drinking, surface and waste water	-
33	Determination of macrozoobenthos microscopically and calculation of macrozoobenthos saprobic index	SOP B-3 (ČSN 75 7701; ČSN 75 7714; ČSN 75 7716; ČSN EN ISO 10870; ČSN EN 17136; Method 4; Method 5; Method 6)	Surface water	-
34	Determination of chlorophyll-a and phaeopigments by spectrophotometry	SOP B-7-A (ČSN ISO 10260)	Surface water	-
35	Detection and enumeration of thermotolerant coliform bacteria and <i>Escherichia coli</i> by membrane filtration method	SOP B-11-A (ČSN 75 7835)	Surface and waste water	-
36	Detection and enumeration of intestinal enterococci by membrane filtration method	SOP B-12-A (ČSN EN ISO 7899-2)	Drinking, surface and waste water	-
37	Determination of macrophytes by determination	SOP B-21 (ČSN EN 14184; ČSN EN 15460; Method 7; Method 8)	Surface water	-

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38	Determination of phytobenthos microscopically and calculation of phytobenthos saprobic index	SOP B-4 (ČSN 75 7715; ČSN 75 7716; ČSN EN 13946; ČSN EN 14407; ČSN EN 15708; Method 9; Method 10)	Surface and waste water	-
39	Determination of glyphosate and AMPA by LC-MS/MS method and calculation of the sum of selected analytes from the measured values	SOP O-16-A (ČSN ISO 21458; EPA 547)	Drinking, surface, underground, waste and process water	A, B, D
40	Determination of glyphosate and AMPA by LC-MS/MS method and calculation of the sum of selected analytes from the measured values	SOP O-16-B (ČSN ISO 21458)	Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste	A, B, D
41	Determination of glyphosate and AMPA by LC-MS/MS method and calculation of the sum of selected analytes from the measured values	SOP O-16-C (ČSN ISO 21458)	Animal and vegetable materials	A, B, D
42	Determination of chloroalkanes C ₁₀ -C ₁₃ by GC/MSD method	SOP O-17-A (ČSN EN ISO 12010)	Drinking, surface, underground, waste and process water	A, B, D
43	Determination of volatile organic compounds (VOC) by GC/MSD method and calculation of the sum of selected analytes from the measured values	SOP O-8a-A (ČSN EN ISO 15680; TNV 75 7055)	Drinking, surface, underground, waste and process water	A, B, D
44	Determination of volatile organic compounds (VOC) by GC/MSD method and calculation of the sum of selected analytes from the measured values	SOP O-8a-B (ČSN EN ISO 15680; EPA 8260)	Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste	A, B, D
45	Reserved			
46	Determination of chlorinated phenols, cresols, naphthols and alkylphenols (CP) by GC/MSD method and calculation of the sum of selected analytes from the measured values	SOP O-13a-A (ČSN EN 12673; ČSN EN ISO 18857-1; ČSN ISO 24293)	Drinking, surface, underground, waste and process water	A, B, D
47	Determination of chlorinated phenols, cresols, naphthols and alkylphenols (CP) by GC/MSD method and calculation of the sum of selected analytes from the measured values	SOP O-13a-B (ČSN EN 12673; ČSN EN ISO 18857-1; ČSN ISO 24293; EPA 8041A)	Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste	A, B, D
48	Reserved			

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49	Determination of selected analytes by GC-MS/MS method and calculation of the sum of selected analytes from the measured values	SOP O-14-A (ČSN EN ISO 6468; ČSN EN ISO 18856; ČSN EN ISO 22032; ČSN P ISO/TS 28581)	Drinking, surface, underground, waste and process water	A, B, D
50	Determination of complexing agents (EDTA) by GC/NPD method	SOP O-15-A (ČSN EN ISO 16588)	Drinking, surface, underground, waste and process water	A, B, D
51	Determination of hydrocarbons C ₁₀ to C ₄₀ by GC/FID method	SOP O-2c-A (ČSN EN ISO 9377-2)	Drinking, surface, underground, waste and process water	A, B, D
52	Determination of hydrocarbons C ₁₀ to C ₄₀ by GC/FID method	SOP O-2c-B (ČSN EN 14039; ČSN EN ISO 16703)	Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste	A, B, D
53	Determination of selected analytes by LC-MS/MS method and calculation of the sum of selected analytes from the measured values	SOP O-19-A (ČSN ISO 20179; ČSN ISO 25101; EPA 535; EPA 539; EPA 1694)	Drinking, surface, underground, waste and process water	A, B, D
54	Determination of selected analytes by LC-MS/MS method and calculation of the sum of selected analytes from the measured values	SOP O-19-B (ČSN ISO 20179)	Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste	A, B, D
55	Determination of selected analytes by LC-MS/MS method	SOP O-19-C (ČSN ISO 20179)	Animal and vegetable materials	A, B, D
56	Determination of selected analytes by GC-MS method and calculation of the sum of selected analytes from the measured values	SOP O-9a-B (ČSN EN 17322; ČSN EN ISO 18856; ČSN EN ISO 22032)	Soils, sediments, sludge, suspended solids, sedimentable suspended solids, solid waste	A, B, D
57	Determination of selected analytes by GC-MS method and calculation of the sum of selected analytes from the measured values	SOP O-9a-C (ČSN EN 17322; ČSN EN ISO 18856; ČSN EN ISO 22032)	Animal and vegetable materials	A, B, D
58	Determination of BNC by titration	SOP Z-3a-A (ČSN 75 7373)	Drinking, surface and ground water	A, D
59	Determination of anionic surfactants by spectrophotometry – MERCK analytical commercial set	SOP O-4b-A (ČSN EN 903; MERCK manual)	Drinking, surface, ground and waste water	A, B, D
60*	Determination of redox potential (ORP) by potentiometry	SOP Z-27a-A (ČSN 75 7367)	Drinking, surface, ground and waste water	A, D

¹ asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises

² if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

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³ degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
39	GLYPHOSATE: glyphosate, AMPA, gluphosinate
40	GLYPHOSATE: glyphosate, AMPA, gluphosinate
41	GLYPHOSATE: glyphosate, AMPA, gluphosinate
43	TOL: benzene, bromobenzene, bromodichloromethane, bromochloromethane, bromoform, tert. butylbenzene, sec. butylbenzene, n-butylbenzene, dibromomethane, dibromochloromethane, 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, 1,2-dichlorobenzene (o), 1,3-dichlorobenzene (m), 1,4-dichlorobenzene (p), 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, cis 1,2-dichloroethene, trans 1,2-dichloroethene, dichloromethane, 1,2-dichloropropane, 1,3-dichloropropane, 2,2-dichloropropane, 1,1-dichloropropene, cis 1,3-dichloropropene, trans 1,3-dichloropropene, ethylbenzene, hexachlorobutadiene, chlorobenzene, 2-chlorotoluene, 4-chlorotoluene, isopropylbenzene, p-isopropyltoluene, naphthalene, n-propylbenzene, styrene, 1,1,1,2-tetrachloroethane, 1,1,2,2-tetrachloroethane, 1,1,2,2-tetrachloroethene, tetrachloromethane, trichloromethane (chloroform), 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,2-trichloroethene, 1,2,3-trichloropropane, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,3,5-trichlorobenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, toluene, 1,2-xylene (o), vinylchloride, 1,3- + 1,4-xylenes, MTBE, ETBE
44	TOL: benzene, m-dichlorobenzene, p-dichlorobenzene, o-dichlorobenzene, 1,2-dichloroethane, trans 1,2-dichloroethene, cis 1,2-dichloroethene, ethylbenzene, hexachlorobutadiene, chlorobenzene, chloroform, 2-chlorotoluene, 4-chlorotoluene, tetrachloroethene, tetrachloromethane, trichloroethene, 1,3,5-trichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, toluene, m+p-xylenes, o-xylene
46	PHENOLS, CRESOLS, NAPHTHOLS: phenol, o-cresol, m-cresol, p-cresol, alpha-naphthol, beta-naphthol; ALKYLPHENOLS: 4-terc.-octylphenol, 4-n-octylphenol, 4-n-nonylphenol, nonylphenol (technical), bisphenol A; CHLOROPHENOLS: 2-monochlorophenol, 3-monochlorophenol, 4-monochlorophenol, 2,3-dichlorophenol, 2,4- + 2,5-dichlorophenols, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,4,5-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,4,6-trichlorophenol, 2,3,4,5-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, 2,3,5,6-tetrachlorophenol, triclosan, triclosan-methylether, 2,3,4-trichlorophenol, 4-chloro-2-methylphenol, pentachlorophenol, 2,6-dichlorophenol
47	PHENOLS, CRESOLS, NAPHTHOLS: phenol, o-cresol, m-cresol, p-cresol, alpha-naphthol, beta-naphthol; ALKYLPHENOLS: 4-terc.-octylphenol, 4-n-octylphenol, 4-n-nonylphenol, nonylphenol (technical), bisphenol A; CHLOROPHENOLS: 2-monochlorophenol, 3-monochlorophenol, 4-monochlorophenol, 2,3-dichlorophenol, 2,4- + 2,5-dichlorophenols, 3,4-dichlorophenol, 3,5-dichlorophenol, 2,6-dichlorophenol, 2,4,5-trichlorophenol, 2,3,5-trichlorophenol, 2,3,6-trichlorophenol, 2,4,6-trichlorophenol,

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	2,3,4,5-tetrachlorophenol, 2,3,4,6-tetrachlorophenol, 2,3,5,6-tetrachlorophenol, pentachlorophenol, 2,3,4-trichlorophenol, 4-chloro-2-methylphenol
49	<p>MUSK: musk xylene, musk ketone, galaxolide, tonalide, cashmeran, celestolide, phantholide, traseolide, musk ambrette, musk moskene, musk NN;</p> <p>FT: bis (2-ethylhexyl)phthalate (DEHP), buthylbenzylphthalate, diethylphthalate, dimethylphthalate, di-n-butylphthalate, di-n-octylphthalate;</p> <p>PBDE and HBCDD: BDE-28, BDE-47, BDE-66, BDE-85, BDE-99, BDE-100, BDE-138, BDE-153, BDE-154, BDE-183, BDE-209, hexabromocyclododecane (HBCDD);</p> <p>PCB and OCP: PCB-28, PCB- 52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180, PCB-194, HCH-alpha, HCH-beta, HCH-gamma, HCH-delta, HCH-epsilon, pentachlorobenzene, hexachlorobenzene, o,p'-DDE, o,p'-DDD, o,p'-DDT, p,p'-DDE, p,p'-DDD, p,p'-DDT, aldrin, dieldrin, endrin, isodrin, heptachlor, cis-heptachloroepoxide, trans-heptachloroepoxide, alpha-endosulfan, beta-endosulfan, chlorpyrifos, octachlorostyrene, methoxychlor, trifluralin, oxy-chlordan, cis-chlordan, trans-chlordan, mirex, 1,2,4,5- tetrachlorobenzene, 1,2,3,4- tetrachlorobenzene, 1,2,3,5- tetrachlorobenzene;</p> <p>PESTICIDES: dicofol, dicamba-methyl, bentazone-methyl, triclosan-methylether, BHT, dichlobenil, chlorothalonil;</p> <p>PYRETHROIDS: bifenthrin, cypermethrin, deltamethrin, esfenvalerate, permethrin;</p> <p>OTHER ANALYTES: 2,6-dichloroaniline, 4-octylphenol monoethoxylate</p>
50	COMPLEXONS: EDTA, NTA, 1,3-PDTA
53	<p>PESTICIDES, PHARMACEUTICALS, PERSONAL CARE PRODUCTS and METABOLITES: 2,4,5-T, 2,4,5-TP, 2,4-D, 2,4-DB, 2,4-DP, 2,6- dichlorobenzoic acid, 2,6-dichlorobenzamide, 2-chloro-2,6-diethylacetanilide, 3,5,6-trichloro-2-pyridinol, 3-chloro-4-methylaniline, 4-acetamidoantipyrine, 4-formylaminoantipyrine, 4-nonylphenol diethoxylate, acebutulol, acesulfam, acetamiprid, acetochlor, acetochlor ESA, acetochlor OA, aclonifen, alachlor, alachlor ESA, alachlor OA, alfuzosin, ametryn, aminopyralid, amisulpride, amitriptiline, anthranilic acid isopropylamide, atenolol, atorvastatin, atraton, atrazine, atrazine-2-hydroxy, atrazine-desethyl, atrazine-desethyl-desisopropyl, atrazine-desisopropyl, avobenzene, azithromycin, azoxystrobin, azoxystrobin-demethyl, benalaxyl, bentazone, bentazonu-methyl, benzotriazole, benzotriazole 1-methyl, benzotriazole 4-methyl, benzivindiflupyr, bezafibrate, bifenox, bifenthrin, bisphenol A, bisphenol B, bisphenol S, bisoprolol, bixafen, boscalid, bromacil, bromoxynil, bromuconazole, butachlor ESA, butylparaben, caffeine, candesartan, carbamazepine, carbamazepine 10,11-dihydro-10-hydroxy, carbamazepine 10,11-dihydroxy, carbamazepine 10,11-epoxide, carbamazepine 2-hydroxy, carbamazepine 3-hydroxy, carbendazim, carbofuran, carbofuran-3-hydroxy, celiprolol, cetirizine, citalopram, clarithromycin, climbazole, clindamycin, clofibrac acid, clomazone, cloparyl, clothianidin, cotinine, clotrimazol, cyanazine, cyazofamide, cyclamate, cyclophosphamide, cyhalothrin, cymoxanil, cypermethrin, cyproconazole, cyprosulfamide, dazomet, DCPU, DEET, deltamethrin, desmedipham, desmetryn, diatrizoate, diazinon, dicamba, dicamba-5-hydroxy, diclofenac, diclofenac-4'-hydroxy, difenoconazole, diflufenican, dichlormid, dichlorvos, diltiazem, dimethachlor, dimethachlor CGA 369873, dimethachlor ESA, dimethachlor OA, dimethenamid ESA, dimethenamid OA, dimethenamid, dimethoate, dimethomorph, dimoxystrobin, dinoseb, disopyramide, diuron, diuron desmethyl (DPCMU), ensulizole, epoxiconazole, eprosartan, erythromycin, esfenvalerate, ethofumesate, ethylparaben, famoxydone, fenamidone, fenarimol, fenhexamid, fenitrothion, fenpropidin, fenpropimorph, fenthion, fenuron, fexofenadine, fipronil, florasulam, fluazifop-P, fluazifop-P-butyl, fluazinam, flufenacet, flufenacet ESA, flufenacet OA, fluopicolide, fluorochloridone, fluoxetine, fluroxypyr, flusilazole, fluxapyroxad, fonofos, foramsulfuron, furosemide, gabapentin, gemfibrozil, haloxyfop, haloxyfop-methyl, hexazinone, hydrochlorothiazide, chloramphenicol, chlorantraniliprol, chlorbromuron, chlorfenvinphos, chloridazon, chloridazon desphenyl, chloridazon methyl desphenyl, chloroxuron, chlorpropham, chlorpyrifos, chlorsulfuron, chlortoluron, chlortoluron desmethyl, ibuprofen, ibuprofen-2-hydroxy,</p>

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	<p>ibuprofen-carboxy, imazalil, imazamethabenz-methyl, imazamox, imazethapyr, imidacloprid, indomethacin, iohexol, iomeprol, iopamidol, iopromid, ipconazol, iprodione, irbesartan, irgarol, isoproturon, isoproturon desmethyl, isoproturon monodesmethyl, isopyrazam, isoxaflutole, isoxaflutole BA, isoxaflutole DKN, ivermectin, ketoprofen, kresoxim-methyl, lamotrigine, lansoprazole sulfone, lenacil, lincomycin, linuron, losartan, lovastatin, malathion, mandipropamid, MCPA, MCPB, MCPP, mebendazole, mefenpyr-diethyl, memantine, mesotrione, metaflumizone, metalaxyl, metamitron, metazachlor, metazachlor ESA, metazachlor OA, metconazole, metformin, methabenzthiazuron, methamidophos, methidathion, methiocarb, methoxyfenozide, methylparaben, metabromuron, metolachlor, metolachlor ESA, metolachlor OA, metoprolol, metoprolol acid, metoxuron, metrafenone, metribuzin, metribuzin DA, metribuzin DADK, metribuzin DK, metronidazole, metsulfuron-methyl, miconazole, miconazole, monolinuron, monuron, napropamide, naproxene, naproxene-o-desmethyl, N-demethyltriazine amine, neburon, nicosulfuron, norverapamil, octhilinone, octocrylene, octyl methoxycinnamate (OMC), omethoate, oxadiazon, oxcarbazepine, oxybenzone, oxypurinol, paracetamol, parathion-ethyl, parathion-methyl, paraxanthine, penconazole, pendimethalin, peniciline G, penoxsulam, permethrin, pethoxamid, pethoxamid ESA, phenazone, phenmedipham, phorate, phosalone, phosphamidon, picloram, picolinafen, picoxystrobin, pirimicarb, pregabalin, p-isopropylaniline, primidone, prohexadione, prochloraz, prometron, prometryn, propachlor, propachlor ESA, propachlor OA, propamocarb, propaquizafop, propargite, propazine, propham, propiconazole, propoxycarbazon, propranolol, propylparaben, propylphenazone, propylamide, proquizamide, prosulfocarb, prothioconazole, pyraclostrobin, pyridate, pyrimethanil, quinmerac, quinoxalin 6-chloro-2,3-hydroxy, quinoxifen, quizalafop, quizalafop-ethyl, ranitidin, rimsulfuron, rosuvastatin, roxithromycin, saccharin, salbutamol, salicylic acid, sebuthylazine, sebumeton, sertraline, simazine, simazine-2-hydroxy, simetryn, simvastatin, sitagliptine, sotalol, spiroxamine, sucralose, sulfadiazine, sulfamerazine, sulfamethazine, sulfamethoxazole, sulfanilamide, sulfapyridine, sulfosulfuron, Swep, tebuconazole, telmisartan, tembotrione, terbuthylazine, terbuthylazine-2-hydroxy, terbuthylazine-desethyl, terbuthylazine-desethyl-2-hydroxy, terbutryn, tetraconazole, theophylline, thiabendazole, thiacloprid, thiamethoxam, thiencarbazone-methyl, thifensulfuron-methyl, thiophanate-methyl, tiamulin, topramezon, torasemide, tramadol, trazodone, triadimefon, triadimenol, tri-allate, triasulfuron, tribenuron-methyl, triclocarban, triclopyr, triclosan, trifloxystrobin, triflusulfuron-methyl, triforine, trimetoprim, trinexapac-ethyl, triticonazole, tritosulfuron, valifenalate, valsartan, valsartan acid, venlafaxine, venlafaxine O-desmethyl, verapamil, warfarin, xanthine;</p> <p>MICROCYSTIN: microcystin LR, microcystin RR, microcystin YR;</p> <p>HIGHLY POLAR ANALYTES: 1,2,4-triazole, 3,4-dichloroaniline, 3,5-dichloroaniline, acrylamide, diquat, ethephon, guanilurea, ethylenethiourea, chlormequat, chlorothalonil R417888, chlorothalonil R471811, melamine, mepiquat,</p> <p>HORMONES: 17a-ethinylestradiol, 17-alpha-estradiol, 17-beta-estradiol, estriol, estrone, norethisterone, progesterone, testosterone;</p> <p>ANTIBIOTICS: Enoxacin, enrofloxacin, norfloxacin, ciprofloxacin, ofloxacin, doxycycline, amoxicillin;</p> <p>ADDICTIVE SUBSTANCES: 6-monoacetylmorphine, 6-monoacetylcodeine, amphetamine, benzoylecgonine, cinnamoilcocaine, cocaine, codeine, diazepam, EDDP, ephedrine, ethylmorphine, fentanyl, heroin, hydrocodone, ketamine, lidocaine, LSD, LSD-2-oxo-3-hydroxy, MDA, MDMA, methadone, methamphetamine, methylephedrine, morphine, norcocaine, oxazepam, oxycodone, THC, THC-COOH;</p> <p>PFAS: PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFNA, PFDA, PFUnDA, PFDODA, PFTrDA, PFBS, PFPeS, PFHxS, PFHpS, PFOS, PFNS, PFDS, PFUnDS, PFDODS, PFTrDS, ADONA, PFOS-H4, PFTeDA, PFHxDA, PFODA</p>
54	<p>PESTICIDES, PHARMACEUTICALS, PERSONAL CARE PRODUCTS and METABOLITES: Acebutulol, acesulfam, acetochlor, acetochlor ESA, acetochlor OA, aclonifen, alachlor, alachlor ESA, alachlor OA, atenolol, atrazine, atrazine-desethyl, azoxystrobin, benzotriazole, benzotriazole-5-methyl, benzotriazole-1-methyl, bezafibrate, bifenox, bifenthrin, bisphenol A, bisphenol B, bisphenol S, bisoprolol,</p>

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CAB number 1252, Water Management Laboratory in Plzeň
Denisovo nábřeží 14, 301 00 Plzeň

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	<p>butachlor ESA, butylparaben, caffeine, carbamazepine, carbamazepine 10,11-dihydro-10-hydroxy, carbamazepine 10,11-dihydroxy, carbamazepine 10,11-epoxide, carbamazepine 2-hydroxy, celiprolol, clarithromycin, climbazole, clindamycin, clofibrac acid, cyclamate, cyclophosphamide, DEET, deltamethrin, diclofenac, diclofenac-4'-hydroxy, dichlorvos, dimethachlor, dimethachlor ESA, dimethachlor OA, diuron, erythromycin, ethofumesate, ethylparaben, fluconazole, furosemide, gabapentin, gemfibrozil, hydrochlorothiazide, chloramphenicol, chlorfenvinphos, chlorpyriphos, ibuprofen, ibuprofen-2-hydroxy, ibuprofen-carboxy, iohexol, iomeprol, iopamidol, iopromid, irbesartan, irgarol, isoproturon, ivermectin, ketoprofen, lamotrigine, lincomycin, linuron, lovastatin, memantine, metazachlor, metazachlor ESA, metazachlor OA, methylparaben, metolachlor, metolachlor ESA, metolachlor OA, metoprolol, naproxene, naproxene o-desmethyl , octyl methoxycinnamate (OMC), oxcarbazepine, paracetamol, paraxantine, peniciline G, PFOA, PFOS, phenazone, primidone, prometryn, propachlor ESA, propachlor OA, propiconazole, propranolol, propylparaben, propyphenazone, propyzamide, quinoxifen, roxithromycin, saccharin, salbutamol, sertraline, simazine, simvastatin, sotalol, sulfadiazine, sulfamerazine, sulfamethazine, sulfamethoxazole, sulfanilamide, sulfapyridine, terbuthylazine, terbutryn, thiamulin, tramadol, tri-allate, triclocarban, triclosan, trimetoprim, valsartan, valasartan acid, venlafaxine, warfarin;</p> <p>MICROCYSTIN: microcystin LR, microcystin RR, microcystin YR;</p> <p>HBCDD: HBCDD-αPHa, HBCDD-beta, HBCDD-gamma, HBCDD-mixture of isomers</p>
55	<p>PESTICIDES, PHARMACEUTICALS, PERSONAL CARE PRODUCTS and METABOLITES: Acebutulol, acesulfam, acetochlor, acetochlor ESA, acetochlor OA, aclonifen, alachlor, alachlor ESA, alachlor OA, atenolol, atrazine, atrazine-desethyl, azoxystrobin, benzotriazole, benzotriazole-5-methyl, benzotriazole-1-methyl, bezafibrate, bifenox, bifenthrin, bisphenol A, bisphenol B, bisphenol S, bisoprolol, butachlor ESA, butylparaben, caffeine, carbamazepine, carbamazepine 10,11-dihydro-10-hydroxy, carbamazepine 10,11-dihydroxy, carbamazepine 10,11-epoxide, carbamazepine 2-hydroxy, celiprolol, clarithromycin, climbazole, clindamycin, clofibrac acid, cyclamate, cyclophosphamide, DEET, deltamethrin, diclofenac, diclofenac-4'-hydroxy, dichlorvos, dimethachlor, dimethachlor ESA, dimethachlor OA, diuron, erythromycin, ethofumesate, ethylparaben, fluconazole, furosemide, gabapentin, gemfibrozil, hydrochlorothiazide, chloramphenicol, chlorfenvinphos, chlorpyriphos, ibuprofen, ibuprofen-2-hydroxy, ibuprofen-carboxy, iohexol, iomeprol, iopamidol, iopromid, irbesartan, irgarol, isoproturon, ivermectin, ketoprofen, lamotrigine, lincomycin, linuron, lovastatin, memantine, metazachlor, metazachlor ESA, metazachlor OA, methylparaben, metolachlor, metolachlor ESA, metolachlor OA, metoprolol, naproxene, naproxene o-desmethyl , octyl methoxycinnamate (OMC), oxcarbazepine, paracetamol, paraxantine, peniciline G, PFOA, PFOS, phenazone, primidone, prometryn, propachlor ESA, propachlor OA, propiconazole, propranolol, propylparaben, propyphenazone, propyzamide, quinoxifen, roxithromycin, saccharin, salbutamol, sertraline, simazine, simvastatin, sotalol, sulfadiazine, sulfamerazine, sulfamethazine, sulfamethoxazole, sulfanilamide, sulfapyridine, terbuthylazine, terbutryn, thiamulin, tramadol, tri-allate, triclocarban, triclosan, trimetoprim, valsartan, valasartan acid, venlafaxine, warfarin;</p> <p>MICROCYSTIN: microcystin LR, microcystin RR, microcystin YR;</p> <p>HBCDD: HBCDD-αPHa, HBCDD-beta, HBCDD-gamma, HBCDD-mixture of isomers</p>
56	<p>PCB and OCP: PCB-28, PCB-52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180, PCB-194, Delor 103, Delor 106, 1,3,5-trichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, alachlor, aldrin, DDD - o,p', DDD - p,p', DDE - o,p', DDE - p,p', DDT - o,p', DDT - p,p', dieldrin, endosulfan-alpha, endosulfan-beta, endrin, heptachlor, heptachloroepoxide-cis, heptachloroepoxide-trans, hexachlorobenzene, hexachlorobutadiene, HCH-alpha, HCH-beta, HCH-delta, HCH-epsilon, HCH-gamma, chlorpyriphos, isodrin, methoxychlor, octachlorostyrene, pentachlorobenzene, trifluralin;</p> <p>MUSK: Cashmeran, celestolide, galaxolide, musk ambrette, musk ketone, musk NN, musk xylene, phantholide, tonalide, traseolide;</p>

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CAB number 1252, Water Management Laboratory in Plzeň
Denisovo nábřeží 14, 301 00 Plzeň

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
	<p>FT: bis(2-ethylhexyl) phthalate, buthylbenzylphthalate, diethylphthalate, dimethylphthalate, di-n-buthylphthalate, di-n-octylphthalate;</p> <p>PESTICIDES: dicofol;</p> <p>PYRETHROIDS: bifenthrin, cypermethrin, deltamethrin, esfenvalerate, permethrin;</p> <p>PBDE and HBCDD: BDE-28, BDE-47, BDE-66, BDE-85, BDE-99, BDE-100, BDE-138, BDE-153, BDE-154, BDE-183, BDE-209, HBCDD;</p> <p>CHLOROALKANES C₁₀ to C₁₃</p>
57	<p>PCB and OCP: PCB-28, PCB-52, PCB-101, PCB-118, PCB-138, PCB-153, PCB-180, PCB-194, Delor 103, Delor 106, 1,3,5-trichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4,5-tetrachlorobenzene, alachlor, aldrin, DDD - o,p', DDD - p,p', DDE - o,p', DDE - p,p', DDT - o,p', DDT - p,p', dieldrin, endosulfan-alpha, endosulfan-beta, endrin, heptachlor, heptachloroepoxide-cis, heptachloroepoxide-trans, hexachlorobenzene, hexachlorobutadiene, HCH-alpha, HCH-beta, HCH-delta, HCH-epsilon, HCH-gamma, chlorpyrifos, isodrin, methoxychlor, octachlorostyrene, pentachlorobenzene, trifluralin;</p> <p>MUSK: Cashmeran, celestolide, galaxolide, musk ambrette, musk ketone, musk NN, musk xylene, phantholide, tonalide, traseolide;</p> <p>FT: bis(2-ethylhexyl) phthalate, buthylbenzylphthalate, diethylphthalate, dimethylphthalate, di-n-buthylphthalate, di-n-octylphthalate;</p> <p>PESTICIDES: dicofol;</p> <p>PYRETHROIDS: bifenthrin, cypermethrin, deltamethrin, esfenvalerate, permethrin;</p> <p>PBDE and HBCDD: BDE-28, BDE-47, BDE-66, BDE-85, BDE-99, BDE-100, BDE-138, BDE-153, BDE-154, BDE-183, BDE-209, HBCDD;</p> <p>CHLOROALKANES C₁₀ to C₁₃</p>

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1, 6, 20, 21	<p>The aqueous extract is prepared according to Decree No. 273/2021 Coll. by a procedure in accordance with the Guideline of the Ministry of Environment ZP 28/2002</p> <p>Decree No. 273/2021 Coll.: Decree on the details of waste management;</p> <p>Guideline 28/2002: Guideline of the Waste Department of the Ministry of the Environment on certain obligations of waste generators and operators of waste management facilities and on the handling of certain wastes</p>
29	<p>Method 1: Příkryl I.: Method for the sampling and processing of standing water zooplankton samples, VÚV, 2006</p>
31	<p>Method 2: Heteša J., Marvan P.: Method for the sampling and processing of flowing water phytoplankton sample, VÚV, 2006</p> <p>Method 3: Komárková J.: Method for the sampling and processing of standing water phytoplankton samples, VÚV, 2006</p>

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Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
33	Method 4: Kokeš J., Němejcová D.: Method for the sampling and processing of flowing water macrozoobenthos samples by Perla method, VÚV, 2006; Method 5: Kokeš J., Tajmrová L., Kvardová H.: Method for the sampling and processing of unfordable flowing water macrozoobenthos samples, VÚV, 2006; Method 6: Adámek Z.: Method for the sampling and processing of standing water macrozoobenthos samples, VÚV, 2006
37	Method 7: Grulich V., Vydrová A.: Method for the sampling and processing of flowing water macrophytes, VÚV, 2006; Method 8: Grulich V., Vydrová A.: Method for the sampling and processing of standing water macrophytes, VÚV, 2006
38	Method 9: Marvan P., Heteša J.: Method for the sampling and processing of flowing water phytobenthos samples, VÚV, 2006; Method 10: Marvan P., Kozáková M.: Method for the sampling and processing of standing water phytobenthos samples, VÚV, 2006

Sampling:

Ordinal number ²	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
1	Drinking water sampling	PP-17-1 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 19458; Decree No. 252/2004 Coll., as amended)	Drinking water
2	Surface water sampling (manual and by automatic sampler)	PP-17-2 (ČSN 75 7717; 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; (Decree No. 238/2011 Coll.)	Surface water

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Ordinal number ²	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
3	Waste water sampling (manual and by automatic sampler)	PP-17-3 (ČSN 75 7315; ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN EN ISO 19458)	Waste water
4	Sampling of sediments from surface water	PP-17-4 (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-12; ČSN EN ISO 5667-14; ČSN EN ISO 5667-15; Vyhláška č. 257/2009 Sb.; Vyhláška č. 273/2021 Sb.)	Sediments
5	Sampling of hydrobiological material	PP-17-5 (ČSN 75 7701; ČSN 75 7712; ČSN 75 7717; ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN EN ISO 5667-14; ČSN EN ISO 5667-16; ČSN EN ISO 10870; ČSN EN 13946; ČSN EN 16698; SOP B-1; SOP B-2; SOP B-3; SOP B-4; SOP B-5; SOP B-6; SOP B-21)	Hydrobiological material
6	Soil sampling	PP-17-6 (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-14, ČSN EN ISO 5667-15, Decree No. 275/1998 Coll.)	Soils

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Ordinal number ²	Sampling procedure name	Sampling procedure identification ¹	Subject of sampling
7	Sampling of water purification and water treatment plant sludge	PP-17-7 (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; Decree No. 244/2021 Coll., Decree No. 273/2021 Coll., Decree No. 445/2022 Coll.)	Sludge (sludge, sediment, screenings, sand, soil)

¹ if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
1	Decree No. 252/2004 Coll.: Decree of the Ministry of Health laying down the sanitary requirements for drinking and hot water and the frequency and scope of drinking water testing
2	Decree No. 238/2011 Coll.: Decree laying down hygiene requirements for bathing places, saunas and hygiene limits for sandboxes of outdoor playgrounds
4	Decree No. 257/2009 Coll.: Decree on the use of sediments on agricultural land Decree No. 273/2021 Coll.: Decree on the details of waste management
6	Decree No. 275/1998 Coll.: Decree on agrochemical testing of soil and assessment of soil properties of forest lands
7	Decree No. 244/2021 Coll.: Decree on water supply and sewerage for public use and on amendments to certain acts Decree No. 273/2021 Coll.: Decree on the details of waste management Decree No. 445/2022 Coll.: Decree amending the Decree No. 273/2021 Coll. on the details of waste management, as amended by Decree No. 78/2022 Coll., and other related decrees in the field of waste management, Ministry of the Environment

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of sampling)
2	Surface water: flowing water, standing water from water reservoirs, natural bathing places and surface water for bathing

Abbreviations:

- AMPA - Aminomethylphosphonic acid
- BOD_n - Biochemical Oxygen Demand, n is the time of incubation (days) (n = 5, 2 + 5)
- C₁₀ to C₁₃ - Chlorinated alkanes with short carbon chain

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C ₁₀ to C ₄₀	- Sum of non-polar extractable hydrocarbons in the range: decane and tetracontane
CP	- Chlorinated Phenols
CFA	- Continuous Flow Analysis
COD _{Cr}	- Chemical Oxygen Demand by potassium dichromate
COD _{Mn}	- Chemical Oxygen Demand by potassium permanganate
EDTA	- Ethylenediaminetetraacetic acid
FT	- Phthalates
GC/ECD	- Gas Chromatography with Electron Capture Detector
GC/FID	- Gas Chromatography with Flame Ionization Detector
GC/MSD	- Gas Chromatography with Mass Spectrometry Detector
GC/NPD phosphorus)	- Gas Chromatography with Nitrogen Phosphorous Detector (selective for nitrogen and phosphorus)
HBCDD	- Hexabromocyclododecane
ANC	- Acid Neutralizing Capacity
LC-MS/MS	- Liquid Chromatography with Mass Detector
MUSK	- Synthetic musk substances
MoE	- Ministry of Environment
NITRO	- Nitrocompounds
OCP	- Organochlorinated Pesticides
ORP	- Redox Potential
PBDE	- Brominated Diphenyl Ethers
PCB	- Polychlorinated Biphenyls
PFAS	- Per- and Polyfluoroalkyl Substances
PP-17-x	- Work procedure for the field of sampling prepared by the Water Management Laboratory in Plzeň
SOP B-x	- Standard operating procedure for the field of biology prepared by the Water Management Laboratory in Plzeň
SOP O-x	- Standard operating procedure for the field of special organic analysis prepared by the Water Management Laboratory in Plzeň
SOP Z-x	- Standard operating procedure for the field of basic chemistry prepared by the Water Management Laboratory in Plzeň
VOC	- Volatile Organic Compounds
BNC	- Base Neutralizing Capacity

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "