The Appendix is an integral part of
Certificate of Accreditation No: 261/2024 of 05/06/2024

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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.suas-lab.cz/dokumenty ke stažení in the form of the „List of activities within the flexible scope of accreditation".
Detailed information on activities within the scope of accreditation (specified analytes / subject of testing / source literature) is given in the section „Specification of the scope of accreditation".

Zkoušky:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1*	Determination of base neutralizing capacity ($BNC_{8,3}$, $BNC_{4,5}$) by titration and free carbon dioxide (CO_2) by calculation	000.ZP.CL.CL.3_2_1. (ČSN 75 7372; ČSN 75 7373)	Drinking water, surface water, ground water, waste water, process water	A, D
2*	Determination of acid neutralizing capacity ($ANC_{8,3}$, $ANC_{4,5}$) by titration and bicarbonates (HCO_3^-), carbonates (CO_3^{2-}) and hydroxides (OH^-) by calculation	000.ZP.CL.CL.3_2_2. (ČSN EN ISO 9963-1; ČSN 75 7373)	Drinking water, surface water, ground water, waste water, process water	A, B, D
3	Determination of calcium (Ca), the sum of calcium and magnesium (Ca+Mg) by titration, determination magnesium (Mg) by calculation	000.ZP.CL.CL.3_2_3. (ČSN ISO 6059; ČSN ISO 6058)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
4	Determination of chlorides (Cl^-) by titration	000.ZP.CL.CL.3_2_6. (ASTM D 512-12, method A:2012)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
5	Determination of chemical oxygen demand using permanganate (COD_{Mn}) by titration	000.ZP.CL.CL.3_2_4. (ČSN EN ISO 8467)	Drinking water, surface water, ground water, waste water, process water	A, D
6	Determination of chemical oxygen demand using permanganate (COD_{Mn}) by spectrophotometry with HACH cuvette test	000.ZP.CL.CL.3_2_66. (ČSN EN ISO 8467; methods manual HACH)	Surface, ground, waste and process water	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
7	Determination of biochemical oxygen demand (BOD_5) electrochemically using membrane electrode - method for diluted samples	000.ZP.CL.CL.3_2_22. method A (ČSN EN ISO 5815-1)	Surface water, ground water, waste water	A, D
8	Determination of biochemical oxygen demand (BOD_5) electrochemically using membrane electrode - method for undiluted samples	000.ZP.CL.CL.3_2_22. method B (ČSN EN 1899-2)	Surface water, ground water, waste water	A, D
9*	Determination of dissolved oxygen (O_2) electrochemically using membrane electrode	000.ZP.CL.CL.3_2_22. method C (ČSN EN ISO 5814)	Surface water, ground water, waste water	A, B, D
10	Determination of suspended solids (NL105, NL550) by gravimetry	000.ZP.CL.CL.3_2_19. (ČSN EN 872; ČSN 75 7350)	Drinking water, surface water, ground water, waste water, process water	A, D
11	Determination of dissolved solids (RL105, RL550) and dissolved inorganic salts (RAS) by gravimetry and total mineralization by calculation	000.ZP.CL.CL.3_2_42. (ČSN 75 7346; ČSN EN 15216; ČSN 75 7358; ČSN 75 7347)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
12*	Determination of electrical conductivity by potentiometry	000.ZP.CL.CL.3_2_5. (ČSN EN 27888)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
13*	Determination of pH electrochemically	000.ZP.CL.CL.3_2_18. (ČSN ISO 10523)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
14*	Measurement of temperature	000.ZP.CL.CL.3_2_9. (ČSN 75 7342)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
15	Determination of odour and taste by orientational sensory analysis	000.ZP.CL.CL.3_2_11. (ČSN 757340; ČSN EN 1622)	Drinking water (odour and taste) Surface water, ground water (odour)	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
16*	Determination of free and total chlorine by colorimetric method, determination of bound chlorine by calculation	000.ZP.CL.CL.3_2_27. (ČSN EN ISO 7393-2)	Bathing water, drinking water, pool water	A, D
17	Determination of nitrate (NO_3^-) after distillation by titration and nitrate nitrogen ($N\text{-}NO_3$) by calculation	000.ZP.CL.CL.3_2_45. (professional literature: Hofmann a collective: Uniform methods of chemical analysis of water, SNTL 1965)	Surface water, ground water, waste water	A, D
18	Determination of nitrate (NO_3^-) and nitrate nitrogen ($N\text{-}NO_3$) by spectrophotometry using the HACH cuvette test	000.ZP.CL.CL.3_2_59. (ČSN ISO 7890-1:1995; ČSN 75 7455; methods manual HACH)	Drinking water, surface water, ground water, waste water, process water	A, D
19	Determination of nitrite (NO_2^-) by spectrophotometry and nitrite nitrogen ($N\text{-}NO_2$) by calculation	000.ZP.CL.CL.3_2_46. (ČSN EN 26777)	Drinking water, surface water, ground water, waste water	A, D
20	Determination of ammonium (NH_{4+}) by spectrophotometry with HACH cuvette test and ammonia nitrogen ($N\text{-}NH_4+$) by calculation	000.ZP.CL.CL.3_2_64. (ČSN ISO 7150-1; (methods manual HACH)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
21	Determination of ammonium ions (NH_4^+) after distillation by titration and ammonia nitrogen ($N\text{-}NH_4$) by calculation	000.ZP.CL.CL.3_2_48. (ČSN ISO 5664)	Drinking water, surface water, ground water, waste water, aqueous extracts	A, D
22	Determination of total nitrogen (N_{tot}) by spectrophotometry with HACH cuvette test and inorganic nitrogen (N_{inorg}), organic nitrogen (N_{org}) and Kjeldahl nitrogen (N_{kj}) by calculation	000.ZP.CL.CL.3_2_65. (ČSN EN ISO 11905-1; (methods manual HACH)	Drinking water, surface water, ground water, waste water, aqueous extracts	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
23	Determination of dissolved inorganic orthophosphate (PO_4^{3-}) and total phosphorus (Pc) by spectrophotometry and of phosphate phosphorus ($P\text{-}PO_4^{3-}$) and phosphoric pentoxide (P_2O_5) by calculation	000.ZP.CL.CL.3_2_16. (ČSN EN ISO 6878, chapter 4 and 7)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
24	Determination of phenol index by spectrophotometry	000.ZP.CL.CL.3_2_17. (ČSN ISO 6439)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
25	Determination of iron (Fe) by spectrophotometry	000.ZP.CL.CL.3_2_23. (ČSN ISO 6332)	Drinking water, surface water, ground water, waste water, process water	A, D
26	Determination of total cyanide and easily liberatable cyanide by spectrophotometry	000.ZP.CL.CL.3_2_25. (ČSN ISO 6703-2; ČSN 75 7415)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
27	Determination of chemical oxygen demand using dichromate (COD_{Cr}) by spectrophotometry using the HACH cuvette test	000.ZP.CL.CL.3_2_57. (ČSN ISO 15705)	Drinking water, surface water, ground water, waste water, aqueous extracts	A, D
28	Determination of fluoride (F^-) by spectrophotometry using the HACH cuvette test	000.ZP.CL.CL.3_2_60. (methods manual HACH)	Drinking water, surface water, ground water, waste water, aqueous extracts	A, D
29	Determination of anionic surfactants (MBAS) by spectrophotometry using the HACH cuvette test	000.ZP.CL.CL.3_2_61. (methods manual HACH)	Drinking water, surface water, waste water, ground water, process water	A, D
30	Determination of sulphate (SO_4^{2-}) by spectrophotometry using the HACH cuvette test	000.ZP.CL.CL.3_2_63. (methods manual HACH)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
31	Determination of aluminium (Al) by spectrophotometry using the HACH cuvette test	000.ZP.CL.CL.3_2_62. (methods manual HACH)	Drinking water, surface water, ground water, waste water, process water	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
32	Determination of boron (B) by spectrophotometry using the HACH cuvette test	000.ZP.CL.CL.3_2_67. method A (methods manual HACH)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
33	Determination of boron (B) by spectrophotometry using the HACH cuvette test	000.ZP.CL.CL.3_2_67. method B (methods manual HACH)	Soil, waste, sludge, solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, D
34	Determination of metals by AAS/Electrothermal Atomization	000.ZP.CL.CL.2_2_1. method A (ČSN EN ISO 15586; ČSN EN ISO 12020; ČSN EN 1233; ČSN EN ISO 5961; TNV 75 7408; ČSN 75 7400; Methods manual AAS Solaar M6; WinAAS cookbook Zeenit 700P)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, B, D
35	Determination of metals by AAS/Electrothermal Atomization	000.ZP.CL.CL.2_2_1. method B (ČSN EN ISO 15586; ČSN EN ISO 12020; ČSN EN 1233; ČSN EN ISO 5961; TNV 75 7408; ČSN 75 7400; ČSN EN ISO, 16968; ČSN EN ISO 16967; ČSN EN 15411; ČSN EN 15410; Methods manual AAS Solaar M6; WinAAS cookbook Zeenit 700P)	Soil, waste, sludge, solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
36	Determination of metals by AAS/Electrothermal Atomization	000.ZP.CL.CL.2_2_1. method C (ČSN EN ISO 15586; ČSN EN 1233; ČSN EN 14902; ČSN 75 7400; Methods manual AAS Solaar M6; WinAAS cookbook Zeenit 700P)	Outdoor air, working environment	B, D
37	Determination of metals by AAS/Electrothermal Atomization	000.ZP.CL.CL.2_2_1. method D (ČSN EN ISO 15586; ČSN EN 1233; ČSN EN ISO 5961)	Sulfuric acid	B, D
38	Determination of metals by AAS/Electrothermal Atomization	000.ZP.CL.CL.2_2_1. method E (ČSN EN ISO 15586; ČSN EN ISO 12020; ČSN EN 1233; ČSN EN ISO 5961; TNV 75 7408; ČSN 75 7400; Methods manual AAS Solaar M6; WinAAS cookbook Zeenit 700P)	Oils, liquid fuels, carbochemical products	A, B, D
39	Determination of metals by AAS/Flame method	000.ZP.CL.CL.2_2_2. method A (ČSN ISO 7980; TNV 75 7408; ČSN ISO 9964-1; ČSN ISO 9964-2; ČSN ISO 8288, method A; ČSN EN ISO 12020; ČSN EN ISO 5961; ČSN EN 1233; ČSN 75 7385; Methods manual AAS Solaar 939)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
40	Determination of metals by AAS/Flame method and stoichiometric calculations of compounds concentration	000.ZP.CL.CL.2_2_2. method B (ČSN ISO 7980; TNV 75 7408; ČSN ISO 9964-1; ČSN ISO 9964-2; ČSN ISO 8288, method A; ČSN EN ISO 12020; ČSN EN ISO 5961; ČSN EN 1233; ČSN 75 7385; ČSN EN ISO 16968; ČSN EN ISO 16967; ČSN EN 15411; ČSN EN 15410; Methods manual AAS Solaar 939)	Soil, waste, sludge, solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, B, D
41	Determination of metals by AAS/Flame method	000.ZP.CL.CL.2_2_2. method C (ČSN ISO 8288, method A; ČSN EN ISO 5961; ČSN EN 1233; ČSN 75 7385; Methods manual AAS Solaar 939)	Outdoor air, working environment	B, D
42	Determination of metals by AAS/Flame method	000.ZP.CL.CL.2_2_2. method D (ČSN EN 1233; ČSN ISO 8288, method A; ČSN EN ISO 5961; ČSN 75 7385)	Sulfuric acid	B, D
43	Determination of metals by AAS/Flame method	000.ZP.CL.CL.2_2_2. method E (ČSN ISO 7980; TNV 75 7408; ČSN ISO 9964-1; ČSN ISO 9964-2; ČSN ISO 8288, method A; ČSN EN ISO 12020; ČSN EN ISO 5961; ČSN EN 1233; ČSN 75 7385; Methods manual AAS Solaar 939)	Oils, liquid fuels, carbochemical products	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
44	Determination of metals by AAS/Hydride method	000.ZP.CL.CL.2_2_7. method A (ČSN ISO 17378-2; ČSN P ISO/TS 17379-2; Methods manual AAS Solaar 939)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, B, D
45	Determination of metals by AAS/Hydride method	000.ZP.CL.CL.2_2_7. method B (ČSN ISO 17378-2; ČSN P ISO/TS 17379-2; ČSN EN ISO 16968; ČSN EN 15411; Methods manual AAS Solaar 939)	Soil, waste, sludge, solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, B, D
46	Determination of metals by AAS/Hydride method	000.ZP.CL.CL.2_2_7. method C (ČSN EN 14902)	Outdoor air, working environment	B, D
47	Determination of metals by AAS/Hydride method	000.ZP.CL.CL.2_2_7. method D (ČSN ISO 17378-2; ČSN P ISO/TS 17379-2)	Sulfuric acid	B, D
48	Determination of metals by AAS/Hydride method	000.ZP.CL.CL.2_2_7. method E (ČSN ISO 17378-2; ČSN P ISO/TS 17379-2; Methods manual AAS Solaar 939)	Oils, liquid fuels, carbochemical products	A, B, D
49	Determination of selected elements by ICP/OES method and stoichiometric calculations of their compounds concentration	000.ZP.CL.CL.2_2_9. method A (ČSN EN ISO 11885; EPA method 200.7)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, B, D
50	Determination of selected elements by ICP/OES method and stoichiometric calculations of their compounds concentration	000.ZP.CL.CL.2_2_9. method B (ČSN EN ISO 11885; ČSN EN 16170; ČSN EN ISO 16968; ČSN EN ISO 16967; EPA method 200.7; ČSN EN 15410; ČSN EN 15411)	Soil, waste, sludge, solid fuels (TFP, TBP, TAP), VEP and products from these matrices	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
51	Determination of selected elements by ICP/OES method and stoichiometric calculations of their compounds concentration	000.ZP.CL.CL.2_2_9. method C (ČSN EN ISO 11885)	Outdoor air, working environment	B, D
52	Determination of selected elements by ICP/OES method and stoichiometric calculations of their compounds concentration	000.ZP.CL.CL.2_2_9. method D (ČSN EN ISO 11885)	Oils, liquid fuels	A, B, D
53	Determination of mercury (Hg) by analyser AMA	000.ZP.CL.CL.2_2_3. (ČSN 75 7440; ČSN EN ISO 16968; ČSN EN 15411)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts, soil, waste, sludge, outdoor air, working environment, sulfuric acid, emissions, carbochemical products, oils, liquid fuels; solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, D
54	Determination of adsorbable organically bound halogens (AOX) by coulometry	000.ZP.CL.CL.2_2_4. method A (ČSN EN ISO 9562; TNI 75 7531)	Drinking water, surface water, ground water, waste water, aqueous extracts	A, D
55	Determination of adsorbable organically bound halogens (AOX) by coulometry	000.ZP.CL.CL.2_2_4. method B (DIN 38414-18; ČSN EN 16166)	Sludge, soil	A, D
56	Determination of extractable organically bound halogens (EOX) by coulometry	000.ZP.CL.CL.2_2_6. (DIN 38409-8:1984; DIN 38414-17)	Soil, waste, sludge and products from these matrices	A, D
57	Determination of titanium (Ti) by spectrophotometry and titanium dioxide (TiO_2) by calculation	000.ZP.CL.CL.2_5_2. (ČSN 44 1358; ČSN EN ISO 16967; ČSN EN 15410)	Soil, waste, sludge, solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, D
58	Determination of orthophosphate (PO_4^{3-}) by spectrophotometry and phosphoric pentoxide (P_2O_5) and phosphorus (P) by calculation	000.ZP.CL.CL.2_5_3. (ČSN 44 1380: 1987; ČSN EN ISO 16967; ČSN EN 15410)	Soil, waste, sludge, solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
59	Determination of concentration of chlorides by spectrophotometry after burning	000.ZP.CL.CL.2_5_8. (ČSN EN 1911; ČSN ISO 18806)	Soil, waste, sludge, solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, D
60	Determination of concentration of fluorides by spectrophotometry after burning	000.ZP.CL.CL.2_5_9. (TNV 75 7431; ČSN ISO 11724)	Soil, waste, sludge, solid fuels (TFP, TAP, TBP), VEP and products from these matrices	A, D
61	Determination of dry matter and ignition residue after ignition by gravimetry, determination of water content, of moisture and of loss on ignition by calculation	000.ZP.CL.CL.2_3_9. (ČSN ISO 11465; ČSN EN 12880; ČSN EN ISO 17892-1; ČSN 72 0103; ČSN EN 15935; ČSN EN 15934, method A; ČSN EN 17685-1)	Soil, waste, sludge, VEP, asphalt mixtures and products from these matrices	A, B, D
62	Determination of concentration of inhalable and respirable fraction of airborne dust	000.ZP.CL.CL.2_9_1. (ČSN EN 481; NV 361/2007 Sb.)	Working environment	D
63	Measurement of noise in working environment	000.PPO.CL.CL.1_5_5_1. (ČSN EN ISO 9612; ČSN EN ISO 11201; ČSN EN ISO 11202; ČSN ISO 1996-1; MoH Bulletin, 2013, Part 4)	Working environment	D
64*	Measurement of noise in non-working environment	000.PPO.CL.CL.1_5_5_3. (ČSN ISO 1996-1; ČSN ISO 1996-2; MoH Bulletin, 2017, Part 11)	Non-working environment (noise in protected outdoor areas of buildings, in protected outdoor areas and on the border of outdoor areas)	D
65	Determination of polycyclic aromatic hydrocarbons (PAH) by high-performance liquid chromatography (HPLC) method with fluorescence detection	000.ZP.CL.CL.4_2_1. method A (ČSN EN ISO 17993; ČSN 75 7554:1998)	Drinking water, surface water, ground water, waste water, aqueous extracts	A, D

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66	Determination of polycyclic aromatic hydrocarbons (PAH) by high-performance liquid chromatography (HPLC) method with fluorescence detection	000.ZP.CL.CL.4_2_1. method B (US EPA TO 13; NIOSH 5506)	Outdoor air, working environment, emissions	D
67	Determination of polycyclic aromatic hydrocarbons (PAH) high-performance liquid chromatography (HPLC) method with fluorescence detection	000.ZP.CL.CL.4_2_1. method C (ČSN EN 17503)	Waste, soil, sludge, solid fuels (TAP), asphalt mixtures and products from these matrices	A, D
68	Determination of polychlorinated biphenyls (PCB) by gas chromatography (GC/ECD)	000.ZP.CL.CL.4_3_1. method A (ČSN EN ISO 6468)	Drinking water, surface water, ground water, waste water, process water, aqueous extracts	A, D
69	Determination of polychlorinated biphenyls (PCB) by gas chromatography (GC/ECD)	000.ZP.CL.CL.4_3_1. method B (ČSN EN 17322)	Waste, soil, sludge and products from these matrices	A, D
70	Determination of polychlorinated biphenyls (PCB) by gas chromatography (GC/ECD)	000.ZP.CL.CL.4_3_1. method C (ČSN EN 61619; ČSN EN 12766-1; ČSN EN 12766-2)	Oils, liquid fuels, carbochemical products	A, D
71	Determination of hydrocarbons C_{10} to C_{40} by gas chromatography (GC/FID)	000.ZP.CL.CL.4_5_1. method A (ČSN EN ISO 9377-2)	Surface water, waste water, ground water, process water	A, D
72	Determination of hydrocarbons C_{10} to C_{40} by gas chromatography (GC/FID)	000.ZP.CL.CL.4_5_1. method B (ČSN EN 14039; ČSN EN ISO 16703)	Waste, soil, sludge and products from these matrices	A, D
73	Determination of volatile organic compounds (in the range of BTEX, CLU) by gas chromatography (GC/FID)	000.ZP.CL.CL.4_4_1. (ČSN P CEN/TS 13649; ČSN EN 14662-2)	Outdoor air, working environment, emissions	B, D
74	Determination of volatile organic compounds (in the range of BTEX , CLU) by gas chromatography by SPME method (GC/FID+ECD)	000.ZP.CL.CL.4_8_1. method A (TNV 75 7552; ČSN EN ISO 10301)	Drinking water, surface water, ground water, waste water	A, B, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
75	Determination of volatile organic compounds (in the range of BTEX, CLU) by gas chromatography by SPME method (GC/FID+ECD)	000.ZP.CL.CL.4_8_1. method B (TNV 75 7552)	Waste, soil, sludge and products from these matrices	A, B, D
76	Determination of ash content by gravimetry	000.PPO.CL.CL.7_2_2. (ČSN ISO 1171; ČSN EN ISO 18122; ČSN EN ISO 21656; ČSN EN 15935)	Solid fuels (TFP, TAP, TBP), VEP, waste, sludge and products from these matrices	A, D
77	Determination of water content by gravimetry	000.ZP.CL.CL.7_2_3. (ČSN 44 1377; ČSN EN ISO 18134-1; ČSN EN ISO 18134-2; ČSN EN ISO 18134-3; ČSN P CEN/TS 15414-1; ČSN P CEN/TS 15414-2; ČSN EN ISO 21660-3; ČSN ISO 579; ČSN EN 15934, method A; ČSN EN 12880)	Solid fuels (TFP, TAP, TBP), VEP, waste, sludge and products from these matrices	A, D
78	Determination of water content and ash content by thermogravimetry and determination of unburned residue by calculation	000.ZP.CL.CL.7_2_8. (ČSN ISO 1171; ČSN 44 1377; ČSN EN ISO 18122; ČSN EN ISO 18134-3; ČSN EN ISO 21656; ČSN EN ISO 21660-3; ČSN ISO 579; ČSN EN 15935; ČSN EN 12880; ČSN EN 15934, method A)	Solid fuels (TFP, TAP, TBP), VEP, waste, sludge and products from these matrices	A, D
79	Determination of gross calorific value by calorimetry and determination of net calorific value by calculation	000.ZP.CL.CL.7_2_5. method A (ČSN ISO 1928; ČSN EN ISO 18125; ČSN EN ISO 21654; ČSN EN 15170; ČSN P CEN/TS 16023)	Solid fuels (TFP, TAP, TBP), waste, sludge and products from these matrices	A, D
80	Determination of gross calorific value by calorimetry and determination of net calorific value by calculation	000.ZP.CL.CL.7_2_5. method B (ČSN DIN 51900-1; ČSN DIN 51900-2)	Oils, liquid fuels, carbochemical products	A, D

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
81	Determination of total carbon (TC), total organic carbon (TOC) by IR spectrometry and total inorganic carbon (TIC) by calculation	000.ZP.CL.CL.7_2_4. (ČSN ISO 10694; ČSN EN 15936)	Solid fuels (TFP, TAP, TBP), soils, waste, sludge, VEP and products from these matrices	A, D
82	Determination of sulphur (S), of hydrogen (H), of carbon (C) by IR spectrometry with CNH+S analyzer and determination of emission factor, of specific sulphur content, of sulphur dioxide and of oxygen by calculation	000.ZP.CL.CL.7_2_11. method A (ČSN ISO 19579; ČSN ISO 29541; ČSN EN ISO 16948; ČSN EN ISO 21663; ČSN ISO 17247)	Solid fuels (TFP, TAP, TBP), waste, sludge, VEP, soil, peloid (only for S) and products from these matrices	A, D
83	Determination of sulphur (S), of hydrogen (H), of carbon (C) by IR spectrometry with CNH+S analyzer and determination of emission factor, of specific sulphur content, of sulphur dioxide and of oxygen by calculation	000.ZP.CL.CL.7_2_11. method B (Analyzer Manual CHN 628 with additional module for sulphur)	Oils, liquid fuels, carbochemical products	A, D
84	Determination of nitrogen (N) by thermal conductivity detection with CHN analyzer	000.ZP.CL.CL.7_2_11. method C (ČSN ISO 29541; ČSN EN ISO 16948; ČSN EN ISO 21663)	Solid fuels (TFP, TAP, TBP), waste, sludge, VEP, soil and products from these matrices	A, D
85	Determination of nitrogen (N) by thermal conductivity detection with CHN analyzer	000.ZP.CL.CL.7_2_11. method D (Analyzer Manual CHN 628 with additional module for sulphur)	Oils, liquid fuels, carbochemical products	A, D
86	Determination of volatile matter content by gravimetry and determination of fixed carbon by calculation	000.ZP.CL.CL.7_3_3. (ČSN ISO 5071-1; ČSN ISO 562; ČSN EN ISO 18123; ČSN ISO 17246; ČSN EN ISO 22167)	Solid fuels (TFP, TBP, TAP)	A, B, D
87	Fraction size analysis by dry sieving	000.ZP.CL.CL.7_3_4. (ČSN 44 1340; ČSN EN ISO 17892-4, article 5.2.)	Solid fuels (TFP), VEP	A, D

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
88	Determination of kinematic viscosity by glass capillary viscometer Ubbelohde and determination of viscosity index, of dynamic viscosity by calculation	000.ZP.CL.CL.5_3_6. (ČSN EN ISO 3104; ČSN ISO 2909)	Oils, liquid fuels (crude oil, petroleum), carbochemical products	A, D
89	Determination of flash point - Cleveland opened-cup method	000.ZP.CL.CL.5_3_7. (ČSN EN ISO 2592)	Oils	A, D
90	Determination of flash point - Pensky-Martens closed cup method	000.ZP.CL.CL.5_3_13. (ČSN EN ISO 2719)	Oils, liquid fuels (crude oil, petroleum), carbochemical products	A, D
91	Determination of density by U-tube method	000.ZP.CL.CL.5_3_9. (ČSN EN ISO 12185)	Oils, liquid fuels (crude oil, petroleum), carbochemical products	A, D
92*	Determination of mass concentration of gas pollutants (SO_2, NO_x, CO, CO_2) with automated analyzer (non-dispersive IR spectroscopy)	000.PPO.CL.CL.1_5_1_13. method A (STN ISO 12039; ČSN ISO 7935; ČSN ISO 10849; ČSN EN 15058)	Emissions	D
93*	Determination of volumetric concentration of oxygen (O_2) with automated analyser (paramagnetic method)	000.PPO.CL.CL.1_5_1_13. method B (ČSN EN 14789)	Emissions	D
94*	Determination of total mass concentration of organic compounds expressed as total organic carbon (TOC) by automated analyzer (FID)	000.PPO.CL.CL.1_5_1_14. (ČSN EN 12619)	Emissions	D
95*	Determination of velocity, volume flow rate	000.ZP.CL.CL.8_1_3. method A (ČSN ISO 10780)	Emissions	D
96*	Determination of water vapour (condensation method)	000.ZP.CL.CL.8_1_3. method B (ČSN EN 14790)	Emissions	D
97	Determination of mass concentration of persistent organic compounds by calculation from measured values[4] (PCDD/PCDF, PCB, PAH)	000.ZP.CL.CL.8_1_4. (ČSN EN 1948-3; ČSN EN 1948-4+A1)	Emissions	D
98	Determination of mass concentration of solid pollutants by gravimetry	000.ZP.CL.CL.6_3_5. (ČSN EN 13284-1)	Emissions	D

The Appendix is an integral part of
Certificate of Accreditation No: 261/2024 of 05/06/2024

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
99	Determination of mass concentration of metals by AAS (As, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Sn, Te, Tl, V, Zn)	000.ZP.CL.CL.2_2_8. (ČSN EN 14385; ČSN EN 13211; ČSN ISO 8288, method A; ČSN P ISO/TS 17379-2; Methods manual AAS Solaar M6 and Solaar 939; WinAAS cookbook Zeenit 700P)	Emissions	B, D
100	Determination of gaseous inorganic compounds of chlorine by spectrophotometry and determination of HCl by calculation	000.ZP.CL.CL.2_5_6. (ČSN EN 1911)	Emissions	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 edition of the specified procedure is used (including any changes)

[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.

[4] laboratory determination of analytes in the taken sample is provided by an external test supplier within the scope of its accreditation

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
34	Elements – Ba, Be, Cr, Al, Cd, Co, Mn, Mo, Cu, Ni, Pb, Ag, Tl, V
35	Elements – Ba, Be, Cr, Cd, Al, Co, Mo, Cu, Ni, Pb, Ag, Si, Tl, V
36	Elements– Ag, Be, Cr, Cd, Co, Mn, Cu, Ni, Pb, V
37	Elements – Cr, Cd, Cu, Pb
38	Elements – Ba, Be, Cr, Al, Cd, Co, Si, Mn, Mo, Cu, Ni, Pb, Ag, Tl, V
39	Elements – Ba, Be, K, Al, Mg, Cr, Cd, Co, Sn, Mn, Cu, Mo, Ni, Pb, Na, Ca, Zn, Fe, Li
40	Elements – Ba, Be, Sn, K, Al, Mg, Cr, Cd, Co, Si, Mn, Cu, Mo, Ni, Pb, Na, Ca, Zn, Fe, Li Oxides – CaO, Fe_2O_3, K_2O, MgO, MnO, Al_2O_3, SiO_2, Na_2O
41	Elements – Be, Cr, Cd, Co, Cu, Mn, Ni, Pb, Zn
42	Elements – Cr, Cd, Cu, Pb, Fe
43	Elements – Ba, Be, Sn, K, Al, Mg, Cr, Cd, Co, Si, Mn, Cu, Mo, Ni, Pb, Na, Ca, Zn, Fe, Li

The Appendix is an integral part of
Certificate of Accreditation No: 261/2024 of 05/06/2024

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

Ordinal test number	Detailed information on activities within the scope of accreditation (determined analytes)
44, 45, 48	Elements – Sb, As, Sn, Se
46	Elements – As
47	Elements – As, Se
49	Elements – Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn
50	Elements – Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn Oxides – CaO, Fe_2O_3, K_2O, MgO, MnO, Al_2O_3, TiO_2, SiO_2 Determined elements in TBP – Al, As, Ba, Be, Ca, Cd, Co, Cr, Fe, Hg, K, Li, Mn, Mo, Ni, Pb, Sb, Se, Si, Sn, Tl, V, Zn
51	Elements – As, Be, Cd, Co, Cr, Cu, Mn, Ni, Pb, V, Zn
52	Elements – Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Ti, Tl, V, Zn
65-67	PAH – naphthalene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, indeno(1,2,3,-cd)pyrene, benzo(ghi)perylene, sum of PAH by calculation
68-70	PCB – congeners 28, 52, 101, 118, 138, 153, 180, sum of PCB by calculation
73	BTEX – benzene, toluene, etylbenzene, o-xylene, m,p-xylene, sum of BTEX by calculation, sum of xylens by calculation
73	CLU – trichloroethene, tetrachloroethene, sum of trichloroethene and tetrachloroethene by calculation
73, 75	BTEX – benzene, toluene, etylbenzene, o-xylene, m,p-xylene, sum of BTEX by calculation, sum of xylens by calculation
74, 75	CLU – trichloromethane, 1,2-dichloroethane, tetrachloromethane, trichloroethene, tetrachloroethene, chlorobenzene

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of testing)
1-5, 10-16, 18-32, 34, 39, 44, 49, 53, 54, 65, 68, 74	Drinking water – drinking water, hot water, bottled water, mineral water, infant water, spring water, water treated or made from raw water, utility water, well water
1-6, 10-14, 18, 20, 23-26, 29-32, 34, 39, 44, 49, 53, 68, 71	Process water – cooling water, boiler water, additional water, feed water, condensate, boiler water, underground water (except wells), gypsum suspension – liquid part
1-14, 17-32, 34, 39, 44, 49, 53, 54, 65, 68, 71, 74	Surface water – water from natural and artificial water reservoirs, water from rivers and streams, raw water intended for treatment into drinking water, utility water

The Appendix is an integral part of
Certificate of Accreditation No: 261/2024 of 05/06/2024

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

Ordinal test number	Detailed information on activities within the scope of accreditation (subject of testing)
1-14, 17-32, 34, 39, 44, 49, 53, 54, 65, 68, 71, 74	Groundwater – water from the saturated zone of groundwater from monitoring boreholes, raw water intended for treatment into drinking water, utility water
1-14, 18-32, 34, 39, 44, 49, 53, 54, 65, 68, 71, 74	Wastewater – sewage water, industrial water, mine water, water from waste water treatment plants, sewage water
3, 4, 11-14, 20-24, 26-28, 30, 32,34, 39, 44, 49, 53, 54, 65, 68	Aqueous extracts – aqueous extract of waste prepared according to ČSN EN 12457-4 in accordance with decree 273/2021 Coll. on the conditions of waste management or in accordance with applicable legislation or leachate from another matrix according to the customer's request (e.g. soils, sediments, etc.)
16	Bathing water – pool water, bath water, bathing water from natural swimming pools and other surface waters intended for bathing
33, 35, 40, 45, 50, 53, 55-61, 67, 69, 72, 75-79, 81, 82, 84	Sludge – definition according to Act No. 541/2020 Coll., sludge, treated sludge, sewage sludge, waterworks and other sludge; sediments intended for use on agricultural land (Decree incl. 257/2009 Coll.), in accordance with applicable legislation or according to customer requirements
33, 35, 40, 45, 50, 53, 56-61, 67, 69, 72, 75-79, 81, 82, 84	Products – materials prepared from VEP, waste, soils, sludge or solid fuels (list according to the matrices at the specific test). Processing and analysis procedures correspond to the processing and analysis of the most represented matrix.
33, 35, 40, 45, 50, 53, 57-61, 76-78, 81, 82, 84, 87	VEP – ash, slag, energy gypsum, industrial settlings and deposits, gypsum suspension – solid part
33, 35, 40, 45, 50, 53, 55-61, 67, 69, 72, 75-79, 81, 82, 84	Soils - definition according to ČSN EN ISO 14688-1, agricultural soil (Decree No. 257/2009 Coll., Decree No. 275/1998 Coll.), waste soil intended for backfilling or depositing in landfill (Decree No. 273/2021 Coll. .), in accordance with applicable legislation or according to customer requirements
33, 35, 40, 45, 50, 53, 56-61, 67, 69, 72, 75, 81, 82, 84	Waste - definition according to Act No. 541/2020 Coll., waste (Decree No. 273/2021 Coll., Decree No. 8/2021 Coll., Decree 169/2023 Coll.), sediment intended for backfilling (Decree No. 273/ 2021 Coll.), in accordance with applicable legislation or according to customer requirements
38, 43, 48, 53, 70, 80, 83, 85, 88, 90, 91	Carbochemical products - brown coal producer gas tar, phenol concentrate, waste raw petrol, organic substances and other similar substances
61, 67	Asphalt mixtures – definition according to Decree 283/2023 Coll., asphalts, asphalt mixtures, recycled materials, penetrating macadams
82	Peloids – natural substances a mixture of inorganic and organic substances in different proportions with the effects of natural healing sources (peat, bog and mud)
92-100	Emissions – filters, liquid and solid sorbents, condensates, fly ash

The Appendix is an integral part of
Certificate of Accreditation No: 261/2024 of 05/06/2024

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

Specification of the scope of accreditation:

Ordinal test number	Detailed information on activities within the scope of accreditation (source literature)
63	MoH Bulletin, 2013, Part 4 - Guideline for the measurement and evaluation of noise and vibrations in the workplace and vibrations in protected internal spaces of buildings of 7/2013
64	MoH Bulletin, 2017, Part 11 - Guideline for the measurement and evaluation of noise in non-working environment of 10/2017

Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
1	Sampling from water reservoirs (manually)	000.PPO.CL.CL. 1_5_6_1. (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-4; ČSN EN ISO 5667-14; ČSN EN ISO 19458; TNV 75 7055)	Surface water
2	Sampling from monitoring sites of rivers and streams (manually and automatically)	000.PPO.CL.CL. 1_5_6_3. (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN EN ISO 5667-6; ČSN EN ISO 5667-14; ČSN EN ISO 19458; TNV 75 7055)	Surface water
3	Sampling of waste water (manually and automatically)	000.PPO.CL.CL. 1_5_6_4. (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-10; ČSN EN ISO 5667-14; ČSN EN ISO 19458; TNV 75 7055; ČSN 75 7315)	Waste water
4	Sampling of groundwater from monitoring wells (submersible pump sampling, manual sampling)	000.PPO.CL.CL. 1_5_6_5. (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-11; ČSN EN ISO 5667-14; ČSN EN ISO 19458; TNV 75 7055)	Ground water

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
5	Sampling of sludge from sewage and treatment plants and other sludge using probes, paddles and needles	000.PPO.CL.CL. 1_5_6_6. (ČSN EN ISO 5667-1; ČSN EN ISO 5667-13; ČSN EN ISO 5667-15; ČSN EN 14899; ČSN EN 15002; ČSN EN 16179; ČSN ISO 5667-12)	Sludge
6	Sampling of solid materials using probes, paddles and needles	000.PPO.CL.CL.1_5_7_1. (ČSN EN 14899; ČSN EN 15002; ČSN EN 16179; ČSN EN ISO 18135; ČSN EN ISO 21645)	Waste, soil, solid fuels (TAP, TBP), VEP
7	Sampling of aerosols on a capture medium	000.PPO.CL.CL.1_5_8_1. (US EPA TO 13; ČSN EN 689+AC)	Outdoor air, working environment
8	Sampling of inhalable and respirable fraction of airborne dust	000.PPO.CL.CL.1_5_5_2. (ČSN EN 481; NV 361/2007 Sb.)	Working environment
9	Sampling for the determination of persistent organic compounds (PCDD/PCDF, PCB, PAH) - sampling with automatic isokinetic control, filtration condensation method)	000.PPO.CL.CL.1_5_1_6. (ČSN EN 1948-1)	Emissions
10	Sampling for the determination of heavy metals (As, Be, Cd, Co, Cr, Cu, Hg, Mn, Ni, Pb, Sb, Se, Sn, Te, Tl, V, Zn) - sampling with automatic isokinetic control and absorption into liquid	000.PPO.CL.CL.1_5_1_7. (ČSN EN 14385; ČSN EN 13211)	Emissions
11	Sampling of solid pollutants (isokinetic sampling with automatic isokinetic control)	000.PPO.CL.CL.1_5_1_10. (ČSN EN 13284-1)	Emissions
12	Sampling of gas and vapour into absorption solution (F^-, Cl^-)	000.PPO.CL.CL.1_5_8_5. (ČSN EN 1911; ČSN P CEN/TS 17340)	Emissions
13	Sampling of volatile organic compounds (BTEX, CLU, formaldehyde) by catching on a solid sorbent	000.PPO.CL.CL.1_5_8_4. (ČSN P CEN/TS 13649)	Emissions

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

Ordinal number	Sampling procedure name	Sampling procedure identification[1]	Subject of sampling
14	Sampling of gas and vapour (BTEX, CLU, Hg, PAH) by catching on a solid sorbent	000.PPO.CL.CL.1_5_8_2. (ČSN EN 689+AC; ČSN EN ISO 16017-1; ČSN EN 14662-2; NIOSH 5506)	Outdoor air, working environment
15	Sampling of water samples from natural and artificial swimming pools (manual sampling)	000.PPO.CL.CL.1_5_6_9. (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; Vyhláška MZČR č. 238/2011 Sb.)	Bathing water, pool water
16	Sampling of drinking and hot water (manual sampling)	000.PPO.CL.CL.1_5_6_2. (ČSN EN ISO 5667-1; ČSN EN ISO 5667-3; ČSN ISO 5667-5; ČSN EN ISO 5667-14; ČSN EN ISO 19458; Vyhláška č. 252/2004 Sb.)	Drinking water, hot water

[1] for dated documents identifying sampling procedures, only those specific procedures are used, for undated documents identifying sampling procedures, the most recent edition of that procedure (including any changes) is used

Abbreviations and explanations:
AAS – Atomic Absorption Spectrometry
AOX – Absorbable Organically Bound Halogens
ASTM – American Society for Testing and Materials
BTEX – benzene, toluene, ethylbenzene, xylenes
CLU – chlorinated hydrocarbons
ČSN – Czech technical standard
EN – European standard
EOX – Extractable Organically Bound Halogens
GC/ECD – Gas Chromatography/Electron Capture Detector
HPLC – High-Performance Liquid Chromatography
ICP/OES – Inductively Coupled Plasma Optical Emission Spectrometry
ISO – International Standards
ANC – Acid Neutralizing Capacity
MBAS – Methylene Blue Active Substances
MoH – Ministry of Health
MoE – Ministry of Environment
$N\text{-}NH_4$ – ammonia nitrogen
$N\text{-}NO_2$ – nitrite nitrogen
$N\text{-}NO_3$ – nitrate nitrogen
N_{inorg} – inorganic nitrogen
N_{tot} – total nitrogen

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

SUAS Lab s.r.o.
CAB number 1360, Special Laboratory, Workplace Vřesová
Staré náměstí 69, 356 01 Sokolov

N_{org} – organic nitrogen
GR – Government Regulation
PAH – Polycyclic Aromatic Hydrocarbons
PCB – Polychlorinated Biphenyls
PCDD – Polychlorinated dibenzodioxins
PCDF – Polychlorinated dibenzofurans
PPO – Working Procedure
TAP – Solid Alternative Fuels
TBP – Solid Biofuels
TC – Total Carbon
TFS – Solid Fossil Fuels
TIC – Total Inorganic Carbon
TNV – Branch Technical Standard
TOC – Total Organic Carbon
US EPA – US Environmental Protection Agency
VEP – Secondary energy products
BNC – Basic Neutralizing Capacity
ZP – Testing Procedure
Emission – Waste gas containing pollutants released in a controlled manner or leaking into atmosphere from stationary sources of pollution.

"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. "