

**The Appendix is an integral part of
Certificate of Accreditation No. 94/2021 of 04/02/2021**

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

ENVIREX spol. s r.o. Chotěboř
ENVIREX spol. s r.o. Laboratory Chotěboř
Průmyslová 1756, 583 01 Chotěboř

The laboratory provides expert opinions and interprets test results.

Tests:

Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
1 *	Determination of pH by potentiometric method	CH-1 Part 1 (ČSN ISO 10523)	Water, aqueous extract a) b)
2	Determination of pH by potentiometric method	CH-1 Part 2 (ČSN ISO 10390, ČSN EN 15933)	Soil, sludge, waste c) d) e)
3	Determination of colour by spectrophotometry	CH-2 (ČSN EN ISO 7887)	Water f)
4	Determination of turbidity by nephelometry	CH-3 (ČSN EN ISO 7027)	Water f)
5	Determination of total, dissolved and suspended solids, dissolved inorganic salts and loss on ignition by gravimetry	CH-4 (ČSN EN 872, ČSN 75 7346, ČSN 75 7347, ČSN 75 7350)	Water, aqueous extract a) b)
6	Determination of conductivity by conductometry	CH-5 (ČSN EN 27888)	Water, aqueous extract a) b)
7	Determination of dissolved oxygen by potentiometry	CH-6 (ČSN EN ISO 5814)	Water a)
8	Determination of acid neutralizing capacity, base neutralizing capacity and forms of CO ₂ by calculation from measured values	CH-7 (ČSN EN ISO 9963-1, ČSN 75 7372)	Water a)
9	Determination of the sum of calcium and magnesium (hardness) by chelometry	CH-10 (ČSN ISO 6059)	Water, aqueous extract a) b)
10	Determination of calcium, sodium, potassium by flame emission spectrometry method	CH-11 part 1 (ČSN ISO 9964-3)	Water, aqueous extract a) b)

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
11	Determination of calcium, sodium, potassium by flame emission spectrometry	CH-11 part 2 (ČSN ISO 9964-3)	Soil, sludge, waste c) d) e)
12	Determination of calcium, sodium, potassium by flame emission spectrometry	CH-11 part 3 (ČSN ISO 9964-3)	Food, food raw materials
13	Determination of calcium, sodium, potassium by flame emission spectrometry	CH-11 part 4 (ČSN ISO 9964-3)	Feedstuffs, vegetable material
14	Determination of calcium, sodium, potassium by flame emission spectrometry	CH-11 part 5 (ČSN ISO 9964-3)	Biological material g)
15	Determination of chloride by argentometry	CH-13 part 1 (ČSN ISO 9297)	Water, aqueous extract a) b)
16	Determination of chloride by argentometry	CH-13 part 2 (ČSN ISO 9297)	Soil, waste c) e)
17	Determination of sulphate by titration	CH-14 part 1 (ČSN 75 7477)	Water, aqueous extract a) b)
18	Determination of sulphate by titration	CH-14 part 2 (ČSN 75 7477)	Soil, waste c) e)
19	Determination of phosphate by spectrophotometry and total phosphorus by calculation from measured values	CH-15 part 1 (ČSN EN ISO 6878)	Water, aqueous extract a) b)
20	Determination of phosphate by spectrophotometry and total phosphorus by calculation from measured values	CH-15 part 2 (ČSN EN ISO 6878, ČSN EN 16174)	Soil, sludge, waste c) d) e)
21	Determination of nitrite by spectrophotometry and nitrite nitrogen by calculation from measured values	CH-17 (ČSN EN 26777)	Water, aqueous extract a) b)

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
22	Determination of nitrate by spectrophotometry and nitrate nitrogen by calculation from measured values	CH-18 (ČSN ISO 7890-3)	Water, aqueous extract a) b)
23	Determination of ammonium by spectrophotometry, ammonia nitrogen and inorganic nitrogen by calculation from measured values	CH-19 part 1 (ČSN ISO 7150-1, ČSN EN 26777, ČSN ISO 7890-3)	Water, aqueous extract a) b)
24	Determination of ammonium by spectrophotometry, ammonia nitrogen and inorganic nitrogen by calculation from measured values	CH-19 part 2 (ČSN ISO 7150-1, ČSN EN 26777, ČSN ISO 7890-3)	Soil, waste c) e)
25	Determination of iron by spectrophotometry	CH-20 (ČSN ISO 6332)	Water, aqueous extract a) b)
26	Determination of chemical oxygen demand with permanganate (COD _{Mn}).	CH-22 (ČSN EN ISO 8467)	Water, aqueous extract a) b)
27	Determination of chemical oxygen demand using dichromate (COD _{Cr}) by spectrophotometry	CH-23 (ČSN ISO 15705, TNI 757521)	Water, aqueous extract a) b)
28	Determination of fluoride by spectrophotometry	CH-24 part 1 (TNV 75 7481)	Water, aqueous extract a) b)
29	Determination of fluoride by spectrophotometry	CH-24 part 2 (TNV 75 7481)	Soil, waste c) e)
30	Determination of total and easily liberatable cyanides by spectrophotometry	CH-26 part 1 (ČSN 75 7415, ČSN ISO 6703-2)	Water, aqueous extract a) b)
31	Determination of total and easily liberatable cyanides by spectrophotometry	CH-26 part 2 (ČSN ISO 75 7415, ČSN ISO 6703-2)	Soil, sludge, waste c) d) f)
32	Determination of phenols by spectrophotometry	CH-27 part 1 (ČSN ISO 6439)	Water, aqueous extract a) b)

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33	Determination of phenols by spectrophotometry	CH-27 part 2 (ČSN ISO 6439)	Soil, sludge, waste c) d) e)
34	Determination of anionic surfactants by spectrophotometry	CH-28 (ČSN EN 903)	Water, aqueous extract a) b)
35	Determination of nonpolar extractives (NEL) and extractives (EL) by FTIR method	CH-29 part 1 (ČSN 75 7505, ČSN 75 7506)	Water, aqueous extract a) b)
36	Determination of nonpolar extractives (NEL) and extractives (EL) by FTIR method	CH-29 part 2 (ČSN 75 7505, ČSN 75 7506)	Soil, sludge, waste c) d) e)
37	Determination of biochemical oxygen demand (BOD ₅) by potentiometric method	CH-31 (ČSN EN 1899-2, ČSN EN ISO 5814, ČSN EN ISO 5815-1)	Water, aqueous extract a) b)
38	Determination of metals (Fe, Mn, Cu, Zn, Ni, Cr, Cd, Pb, Co, Mg, Ag) by atomic absorption spectrometry with flame atomization (FAAS)	CH-32 Part 1 (ČSN ISO 8288, ČSN EN 1233, ČSN ISO 5961, ČSN 75 7385, ČSN ISO 7980)	Water, aqueous extract a) b)
39	Determination of metals (Fe, Mn, Cu, Zn, Ni, Cr, Cd, Pb, Co, Mg, Ag) by atomic absorption spectrometry with flame atomization (FAAS)	CH-32 Part 2 (ČSN ISO 8288, ČSN EN 1233, ČSN ISO 5961, ČSN EN 13346, ČSN 75 7385, ČSN ISO 7980, ČSN EN 16174)	Soil, sludge, waste c) d) e)
40	Determination of metals (Fe, Mn, Cu, Zn, Ni, Cr, Cd, Pb, Co, Mg, Ag) by atomic absorption spectrometry with flame atomization (FAAS)	CH-32 Part 3 (ČSN ISO 8288, ČSN EN 1233, ČSN ISO 5961, ČSN EN 16174, ČSN 75 7385, ČSN ISO 7980)	Food, food raw materials

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
41	Determination of metals (Fe, Mn, Cu, Zn, Ni, Cr, Cd, Pb, Co, Mg, Ag) by atomic absorption spectrometry with flame atomization (FAAS)	CH-32 Part 4 (ČSN ISO 8288, ČSN EN 1233, ČSN ISO 5961, ČSN EN 16174, ČSN 75 7385)	Feedstuffs, vegetable material
42	Determination of metals (Fe, Mn, Cu, Zn, Ni, Cr, Cd, Pb, Co, Mg, Ag) by atomic absorption spectrometry with flame atomization (FAAS)	CH-32 Part 5 (ČSN ISO 8288, ČSN EN 1233, ČSN ISO 5961, ČSN EN 16174, ČSN 75 7385)	Biological material g)
43	Determination of metals (Cr, Cd, V, Ba, Be, Mo, Sn, Ni, Se, As, Sb) by atomic absorption spectrometry with electrothermal atomization (GF AAS)	CH-33 part 1 (ČSN EN ISO 15586)	Water, aqueous extract a) b)
44	Determination of metals (Cr, Cd, V, Ba, Be, Mo, Sn, Ni, Se, As, Sb) by atomic absorption spectrometry with electrothermal atomization (GF AAS)	CH-33 part 2 (ČSN EN ISO 15586, ČSN EN 16174)	Soil, sludge, waste c) d) e)
45	Determination of metals (Cr, Cd, V, Ba, Be, Mo, Sn, Ni, Se, As, Sb) by atomic absorption spectrometry with electrothermal atomization (GF AAS)	CH-33 part 3 (ČSN EN ISO 15586, ČSN EN 16174)	Food, food raw materials
46	Determination of metals (Cr, Cd, V, Ba, Be, Mo, Sn, Ni, Se, As, Sb) by atomic absorption spectrometry with electrothermal atomization (GF AAS)	CH-33 part 4 (ČSN EN ISO 15586, ČSN EN 16174)	Feedstuffs, vegetable material

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
47	Determination of metals (Cr, Cd, V, Ba, Be, Mo, Sn, Ni, Se, As, Sb) by atomic absorption spectrometry with electrothermal atomization (GF AAS)	CH-33 part 5 (ČSN EN ISO 15586, ČSN EN 16174)	Biological material g)
48	Determination of mercury by atomic absorption spectrometry - cold vapour method	CH-34 (ČSN EN ISO 12846)	Water, aqueous extract a) b)
49	Determination of mercury by single-purpose analyzer AMA	CH-35 (ČSN 75 7440)	Water, aqueous extract, soil, sludge, waste, food, food raw materials, feedstuffs, vegetable material, biological material a) b) c) d) e) g)
50	Determination of aluminium by spectrophotometry	CH-36 Part 1 (ČSN ISO 10566)	Water, aqueous extract a) b)
51	Determination of aluminium by spectrophotometry	CH-36 Part 2 (ČSN ISO 10566)	Soil c)
52	Determination of hexavalent chromium by spectrophotometry	CH-38 part 1 (ČSN ISO 11083, ČSN EN ISO 18412)	Water, aqueous extract a) b)
53	Determination of hexavalent chromium by spectrophotometry	CH-38 part 2 (ČSN ISO 11083, ČSN EN ISO 18412)	Soil, sludge, waste c) d) e)
54	Determination of hexavalent chromium by spectrophotometry	CH-38 part 3 (ČSN ISO 11083, ČSN EN ISO 18412)	Food, food raw materials
55	Determination of hexavalent chromium by spectrophotometry	CH-38 part 4 (ČSN ISO 11083, ČSN EN ISO 18412)	Feedstuffs, vegetable material
56	Determination of hexavalent chromium by spectrophotometry	CH-38 part 5 (ČSN ISO 11083, ČSN EN ISO 18412)	Biological material g)

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
57	Determination of total nitrogen by titrimetric method	CH-39 part 1 (ČSN EN 25663)	Water, aqueous extract a) b)
58	Determination of total nitrogen by titrimetric method	CH-39 part 2 (ČSN EN 25663)	Soil, sludge, waste c) d) e)
59	Determination of chlorinated aliphatic hydrocarbons by gas chromatography method after SPME separation (with μ -ECD detector) ³⁾	CH-42 part 1 (ČSN EN ISO 10301, TNV 75 7055, TNV 75 7552)	Water, aqueous extract a) b)
60	Determination of chlorinated aliphatic hydrocarbons by gas chromatography method after SPME separation (with μ -ECD detector) ³⁾	CH-42 part 2 (ČSN EN ISO 10301, TNV 75 7055, TNV 75 7552)	Soil, sludge, waste c) d) e)
61	Determination of BTEX and chlorinated aliphatic hydrocarbons by gas chromatography method after SPME separation (with FID detector) ⁴⁾	CH-43 part 1 (ČSN EN ISO 10301, TNV 75 7055)	Water, aqueous extract a) b)
62	Determination of BTEX and chlorinated aliphatic hydrocarbons by gas chromatography method after SPME separation (with FID detector) ⁴⁾	CH-43 part 2 (ČSN EN ISO 10301, TNV 75 7055)	Soil, sludge, waste c) d) e)
63	Determination of PCB and chlorinated pesticides by gas chromatography method after solid phase extraction (with μ -ECD detector) ⁵⁾	PCB-1 part 1 (ČSN EN ISO 6468, ČSN EN 1528-3, ČSN EN 61619)	Water, aqueous extract a) b)

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
64	Determination of PCB and chlorinated pesticides by gas chromatography method after solid phase extraction (with μ -ECD detector) ⁵⁾	PCB-1 part 2 (ČSN EN ISO 6468, ČSN EN 1528-3, ČSN EN 61619)	Soil, sludge, waste c) d) e)
65	Determination of polycyclic aromatic hydrocarbons by liquid chromatography method after solid phase extraction (with fluorescence detector) ⁶⁾	PAU-2 part 1 (ČSN 75 7554, ČSN EN ISO 17993)	Water, aqueous extract a) b)
66	Determination of polycyclic aromatic hydrocarbons by liquid chromatography method after solid phase extraction (with fluorescence detector) ⁶⁾	PAU-2 part 2 (ČSN 75 7554, ČSN EN ISO 17993)	Soil, sludge, waste c) d) e)
67	Determination of boron by spectrophotometry	CH-48 part 1 (ČSN ISO 9390)	Water, aqueous extract a) b)
68	Determination of boron by spectrophotometry	CH-48 part 2 (ČSN ISO 9390)	Soil c)
69	Determination of formaldehyde by spectrophotometry	CH-49 part 1	Water, aqueous extract a) b)
70	Determination of formaldehyde by spectrophotometry	CH-49 part 2	Soil, waste c) e)
71 *	Determination of free chlorine by spectrophotometry and Merck commercial set	CH-50 (ČSN ISO 7393-2 Merck manual)	Water a)
72	Determination of adsorbable organically bound halogens (AOX) by silver-nitrate titration	AOX-1 Part 1 (ČSN EN ISO 9562)	Water, aqueous extract a) b)

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
73	Determination of adsorbable organically bound halogens (AOX) and total halogens (TX) by silver-nitrate titration	AOX-1 Part 2 (ČSN EN ISO 9562)	Soil, sludge, waste c) d) e)
74	Determination of dry matter by gravimetry	S-1 Part 1 (ČSN ISO 11465, ČSN EN 46 5735, ČSN EN 15934, ČSN EN 12880)	Soil, sludge, waste, biological material c) d) e) g)
75	Determination of dry matter by gravimetry	S-1 Part 2 (ČSN 58 0120)	Food, food raw materials, feedstuffs, vegetable material
76	Determination of organic compounds (loss on ignition) by gravimetry	S-2 Part 1 (ČSN EN 46 5735)	Soil c)
77	Determination of organic compounds (loss on ignition) by gravimetry	S-2 Part 2 (ČSN EN 15935)	Sludge, waste, biological material d) e) g)
78	Determination of odour and taste - preliminary sensory analysis	CH-54 (ČSN 75 7340, ČSN EN 1622)	Drinking, ground water
79	Determination of the sum of hydrocarbons C ₁₀ -C ₄₀ (NEL) by gas chromatography method (with FID detector)	CH-55 part 1 (ČSN EN ISO 9377-2)	Water a)
80	Determination of the sum of hydrocarbons C ₁₀ -C ₄₀ (NEL) by gas chromatography method (with FID detector)	CH-55 part 2 (ČSN EN 14039)	Soil, sludge, waste c) d) e)
81	Determination of total organic carbon (TOC) and dissolved organic carbon (DOC) by spectrophotometry in infrared region	CH-56 (ČSN EN 1484)	Water, aqueous extract a) b)

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Ordinal number ¹	Test procedure/ method name	Test procedure/ method identification ²	Tested object
82 *	Determination of temperature (t)	CH-57 (ČSN 75 7342)	Water a)
83 *	Determination of redox potential by potentiometric method	CH-58 (ČSN 75 7367)	Water a)
84	Determination of fats and oils by gravimetry	CH-59 (ČSN 75 7509)	Waste water
85	Determination of humic substances by spectrophotometry	CH-60 (ČSN 75 7536)	Water, aqueous extract a) b)
86	Determination of extractible organically bound halogens (EOX) by argentometric titration	CH-65 (EPA 9023, DIN 38414-17)	Soli, sludge, waste c) d) e)
87-90	Reserved		
91	Acute toxicity test on <i>Vibrio fisheri</i>	CH-61 (ČSN EN ISO 11348-2, ČSN EN 12457-4, Guideline 8, MoE CR Bulletin, XVII, cl. 4/2007)	Waste, aqueous extract b) e)
92	Acute toxicity test on <i>Daphnia magna</i>	CH-62 (ČSN EN ISO 6341, ČSN EN 12457-4, Guideline 8, MoE CR Bulletin, XVII, cl. 4/2007)	Waste, aqueous extract b) e)
93	Acute toxicity test on <i>Desmodesmus subpicatus</i>	CH-63 (ČSN EN ISO 8692, ČSN EN 12457-4, Guideline 8, MoE CR Bulletin, XVII, cl. 4/2007)	Waste, aqueous extract b) e)
94	Test of the inhibition of root growth of <i>Lactuca sativa</i>	CH-64 (ČSN EN ISO 11269-1, ČSN EN 12457-4, Guideline 8, MoE CR Bulletin, XVII, cl. 4/2007)	Waste, sludge d) e)

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

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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)

Note:

- a) Test object "water" means drinking, surface, ground and waste water.
- b) Test object "aqueous extract" means aqueous extracts of waste, soils, sediments and sludge.
- c) Test object "soil" means agricultural, contaminated soils and composts.
- d) Test object "sludge" means water treatment sludge, sedimented sludge, sediments.
- e) Test object "waste" means pasty, solid and liquid waste.
- a) Test object "water" means drinking, surface and ground water.
- g) Test object "biological material" means fugate, digestate, manure, farmyard manure, slurry.

Determined indicators:

- 3) 1,1-dichloroethene, dichloromethane, trans-1,2-dichloroethene, cis-1,2-dichloroethene, chloroform (trichloromethane), chloroethene, tetrachloromethane, 1,2-dichloroethane, trichloroethene, bromodichloromethane, tetrachloroethene, dibromochloromethane, bromoform, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3,5-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene
- 4) chloroform (trichloromethane), benzene, bromodichloromethane, toluene, acenaphthylene, dibromochloromethane, ethylbenzene+chlorobenzene, m+p-xylene, o-xylene, styrene, bromoform, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,3,5-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,3-trichlorobenzene
- 5) congeners 28,52,101,118,138,153,180
hexachlorobenzene (HCB), gamma-hexachlorobenzene (Lindan), Aldrin, Endrin, Dieldrin, Heptachlor, Methoxychlor, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-, beta-hexachlorocyclohexane, Endosulfan
- 6) naphthalene, acenaphthene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(k)fluoranthene, benzo(b)fluoranthene, benzo(a)pyrene, dibenzo(a,h)anthracene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
1	Drinking water sampling	SOP for sampling – drinking water (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-5, ČSN EN ISO 5667-14, ČSN EN ISO 19458)	Drinking water (raw, treated)
2	Surface water sampling	SOP for sampling – surface water (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 75 7315)	Surface water
3	Waste water sampling (manual sampling, sampling using an automatic sampler)	SOP for sampling – waste water (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN ISO 5667-10, ČSN ISO 5667-14, ČSN 75 7315)	Waste water
4	Sampling of ground water (manual sampling, sampling using a pump)	SOP for sampling – ground water (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-11, ČSN EN ISO 5667-14)	Ground water
5	Sampling of sludge	SOP for sampling – sludge (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, ČSN EN 14899)	Sludge

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Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
6	Waste sampling	SOP for sampling – solid and liquid waste (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN EN 14899, ČSN EN ISO 5667-14, ČSN EN 12457-4, ČSN 01 5111, ČSN 01 5112, ČSN 75 7315) Ministry of Environment Guideline for waste sampling (2008))	Pasty, solid and liquid waste
7	Sampling of soil	SOP for sampling – soil (ČSN EN ISO 5667-1, ČSN EN ISO 5667- 3, ČSN EN ISO 5667-14) ČSN 01 5111, ČSN 75 7315, Guideline No. 9/SZV Regulation No. 400/2004 Coll.)	Soil
8	Sampling of sediment	SOP for sampling –sediments (ČSN EN ISO 5667-1, ČSN EN ISO 5667-3, ČSN ISO 5667-12, ČSN EN ISO 5667-14, ČSN EN ISO 5667-15, ČSN 01 5111, ČSN 01 5112, ČSN 75 7315, MoE Guideline to waste sampling (2008) Regulation No. 257/2009 Coll.)	Sediments

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

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List of abbreviations:

SOP (SOP, CH, PCB, PAU, AOX, TX, S) – Standard Operating Procedures prepared according to valid standards, legislation, firm manuals and application sheets

TNV – Branch Technical Standard of the Ministry of the Environment of the Czech Republic

BTEX – benzene, toluene, ethylbenzene, xylenes

PCB – Polychlorinated Biphenyls

FID – Flame ionization detector

ECD – Electron Capture Detector

NEL – Nonpolar Extractives

SPME – Solid-phase microextraction

FTIR – Fourier Transformation Infrared Spectroscopy