

**The Appendix is an integral part of
Certificate of Accreditation No. 521/2020 of 25. 8. 2020**

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

Výzkumný ústav pro hnědé uhlí a.s.

Testing Laboratory

tř. Budovatelů 2830/3, 434 01 Most

The laboratory has a flexible scope of accreditation permitted as detailed in the Annex.

Updated list of activities provided within the flexible scope of accreditation is available at the Laboratory from the Quality Manager.

The Laboratory is qualified to carry out independent sampling.

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1	Chemical and physical analysis of water and aqueous extracts waste and building materials		
1.01	Determination of pH by potentiometry	IMP 046 (ČSN ISO 10523)	Mine, waste, surface, well water and aqueous extracts ³
1.02	Determination of total, dissolved and suspended solids by gravimetry	IMP 044 (ČSN 75 7346, ČSN 75 7358, ČSN EN 873)	Mine, waste, surface, well water and aqueous extracts ³
1.03	Determination of electrical conductivity	IMP 047 (ČSN EN 27889)	Mine, waste, surface, well water and aqueous extracts
1.04	Determination of dissolved oxygen by membrane electrode	IMP 049 (ČSN EN ISO 5814)	Mine, waste, surface, well water and aqueous extracts ³
1.05 – 1.7	Reserved		
1.08	Determination of anions by ion chromatography ⁴	IMP 055 (ČSN EN ISO 10304-1, ČSN EN ISO 10304-3)	Mine, waste, surface, well water and aqueous extracts ³
1.09	Determination of the chemical oxygen demand – COD _{Cr} (titration method)	IMP 048 (ČSN ISO 6060)	Mine, waste, surface, well water and aqueous extracts ³
1.10	Determination of total cyanide by spectrophotometry	IMP 097 (ČSN 75 7415)	Mine, waste, surface, well water and aqueous extracts ³
1.11	Determination of biochemical oxygen demand by dilution method	IMP 050 (ČSN EN ISO 5815-1, ČSN EN 1899-3)	Mine, waste, surface, well water and aqueous extracts ³
1.12	Determination of ammonium by spectrophotometry	IMP 051 (ČSN ISO 7150-1)	Mine, waste, surface, well water and aqueous extracts ³
1.13	Determination of metals by flame AAS ⁵	IMP 002-1 (ČSN ISO 8288, ČSN EN 1233, ČSN EN ISO 5961, ČSN ISO 7980, ČSN EN ISO 12020, ČSN ISO 9964-1, ČSN ISO 9964-2, ČSN 75 7400, TNV 757408)	Mine, waste, surface, well water and aqueous extracts ³

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1.14	Determination of metals by AAS – hydride method ⁶	IMP 002-3 (ČSN EN ISO 11969:1997, ČSN P ISO/TS 17379-2, ČSN ISO 17378-2)	Mine, waste, surface, well water and aqueous extracts ³
1.15	Determination of metals by AAS – electrothermal method ⁷	IMP 002-2 (ČSN EN 1233, ČSN EN ISO 5961, ČSN EN ISO 12020, ČSN 75 7400, TNV 757409)	Mine, waste, surface, well water and aqueous extracts ³
1.16	Determination of mercury by AMA analyzer	IMP 004 (ČSN 75 7440, manual to the AMA 254 analyzer)	Mine, waste, surface, well water and aqueous extracts ³
1.17	Determination of hydrocarbons C ₁₀ to C ₄₀ by GC - FID method	IMP 095 (ČSN EN ISO 9377-3)	Mine, waste, surface, well water and aqueous extracts ³
1.18	Determination of AOX by coulometry	IMP 064 (ČSN EN ISO 9563)	Mine, waste, surface, well water and aqueous extracts ³
1.19	Determination of EOX by coulometry	IMP 092/LPOV – part A (Mitsubishi TOX300 manual)	Mine, waste, surface, well water and aqueous extracts ³
1.20	Determination of humic substances by spectrophotometry	IMP 093/LPOV (ČSN 75 7536)	Mine, waste, surface, well water and aqueous extracts ³
2	Analysis of solid fuels		
2.01	Determination of water content by gravimetry	IMP 073 (ČSN 44 1377, ČSN P CEN/TS 15414-1 ČSN EN ISO 18134-1)	Solid fuels ⁹
2.02	Determination of ash content by gravimetry	IMP 068 (ČSN ISO 1171, ČSN EN 15403, ČSN EN ISO 18123)	Solid fuels ⁹
2.03	Determination of total sulphur content by ESCHKA method	ČSN 44 1379	Solid fuels ⁹
2.04	Determination of gross calorific value by calorimetry and calculation of net calorific value from the measured values	IMP 072 (ČSN ISO 1928, ČSN EN 15400, ČSN EN ISO 18125, ČSN DIN 51900-1, ČSN DIN 51900-3)	Solid fuels ⁹ and liquid fuels
2.05	Determination of hydrogen, nitrogen, sulphur and carbon by combustion method with TCD detection	IMP 096 (ČSN ISO 29541 ČSN EN 15407, ČSN EN ISO 16949)	Solid fuels ⁹

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
2.06	Determination of the content of water, volatile combustible matter and ash by thermogravimetric method by TGA analyzer	IMP 99 (ČSN 44 1377, ČSN ISO 1171, ČSN 44 1351:1980)	Solid fuels ⁹
2.07	Determination of volatile combustible matter by gravimetry	IMP 080 (ČSN 44 1351:1980, ČSN EN 15402, ČSN EN ISO 18123)	Solid fuels ⁹
2.08	Determination of sulphur forms by gravimetric method	IMP 079 ČSN ISO 157	Solid fuels ⁹
2.09	Determination of ash fusibility in oxidation atmosphere	IMP 078 (ČSN ISO 540, ČSN P CEN/TS 15404, ČSN P CEN/TS 15370-1)	Solid fuels ⁹
2.10	Analysis of solid fuel ash ¹⁰ by gravimetry	IMP 077 – 5.2.1, 5.2.7 (ČSN 44 1359)	Solid fuels ⁹
2.11	Analysis of solid fuel ash ¹¹ by titration	IMP 077 – 5.2.2, 5.2.3, 5.2.5, 5.2.6 (ČSN 44 1359)	Solid fuels ⁹
2.12	Analysis of solid fuel ash ¹² by spectrophotometry	IMP 077 – 5.2.4, 5.2.10 (ČSN 44 1359)	Solid fuels ⁹
2.13	Analysis of solid fuel ash ¹³ by flame AAS	IMP 077 – 5.2.8, 5.2.9 (ČSN 44 1359)	Solid fuels ⁹
2.14	Determination of the content of humic acids by gravimetry	IMP 086 (ČSN ISO 5073)	Solid fuels ⁹
2.15	Determination of the product yield of low temperature carbonization by gravimetry	ČSN ISO 647	Solid fuels ⁹
2.16	Gravimetric determination of extract of brown coal and lignite by organic solvents	IMP 076 (ČSN ISO 975)	Brown coal, lignite
2.17	Determination of chlorine by coulometric titration	IMP 088 – part B (ČSN EN 14077, ČSN EN ISO 9563)	Solid fuels ⁹
2.18	Determination of fluorine content by ISE	IMP 089 (ČSN 44 1382:1993)	Solid fuels ⁹
2.19	Determination of trace elements by flame AAS ⁵	IMP 003-1 (ČSN ISO 8288, ČSN EN 1233, ČSN EN ISO 5961, ČSN ISO 7980, ČSN EN ISO 12020, ČSN ISO 9964-1, ČSN ISO 9964-2, ČSN 75 7400,	Solid fuels ⁹

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 15410, ČSN EN ISO 16967)	
2.20	Determination of trace elements by AAS – hydride method ⁶	IMP 003-3 (ČSN EN ISO 11969:1997, ČSN P ISO/TS 17379-2, ČSN EN 15411, ČSN EN ISO 16969	Solid fuels ⁹
2.21	Determination of trace elements by AAS – electrothermal method ⁷	IMP 003-2 (ČSN EN 1233, ČSN EN ISO 5961, ČSN EN ISO 12020, ČSN 757400, ČSN EN 15410, ČSN EN 15411, ČSN EN ISO 16967, ČSN EN ISO 16969	Solid fuels ⁹
2.22	Determination of mercury by AMA analyzer	IMP 004 (AMA analyzer manual, ČSN 75 7440)	Solid fuels ⁹
3	Chemical analysis of rocks		
3.01	Determination of chlorine by coulometric titration	IMP 088 – part B (ČSN EN 14077, ČSN EN ISO 9563	Rocks
3.02	Determination of trace elements by flame AAS ⁵	IMP 003-1 (ČSN ISO 8288, ČSN EN 1233, ČSN EN ISO 5961, ČSN ISO 7980, ČSN EN ISO 12020, ČSN ISO 9964-1, ČSN ISO 9964-2, ČSN 75 7400)	Rocks
3.03	Determination of aromatic hydrocarbons BTEXS by GC – FID method	IMP 013 (ČSN EN ISO 15680)	Rocks
3.04	Determination of fluorine by ISE	IMP 089 (ČSN 44 1382:1993)	Rocks
3.05	Determination of PCB congeners by GC – ECD method ⁸	IMP 040 (ČSN EN 61619, ČSN EN 15308)	Rocks, waste, insulation liquids
3.06	Determination of chlorinated hydrocarbons trichloroethylene and tetrachloroethylene by GC - ECD method	IMP 058 (ČSN 75 7550:1991, ČSN EN ISO 10301)	Rocks, sediments, sludge, waste

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
3.07	Determination of water by gravimetry	IMP 056 (ČSN EN 12880)	Rocks, waste
3.08	Determination of free CaO by titration	IMP 063 (ČSN 72 2080, cl. 9.19)	Rocks, ash, granulates
3.09	Determination of hydrocarbons C ₁₀ to C ₄₀ by GC - FID method	IMP 095 (ČSN EN 14039)	Rocks and sludge
3.10	Determination of trace elements by AAS – hydride method ⁶	IMP 003-3 (ČSN EN ISO 11969, ČSN P ISO/TS 17379-3)	Rocks
3.11	Determination of trace elements by AAS – electrothermal method ⁷	IMP 003-2 (ČSN EN 1233, ČSN EN ISO 5961, ČSN EN ISO 12020, ČSN 75 7400)	Rocks
3.12	Determination of mercury by AMA analyzer	IMP 004 (AMA 254 analyzer manual, ČSN 75 7440)	Rocks
4	Waste		
4.01	Determination of hydrocarbons C ₁₀ to C ₄₀ by GC - FID method	IMP 095 (ČSN EN 14039)	Sludge, sediments, waste and combustion products
4.02	Determination of aromatic hydrocarbons – benzene, toluene, xylenes, ethylbenzene by GC – FID method	IMP 013 (ČSN EN ISO 15680)	Sludge, sediments, waste and combustion products
4.03	Determination of mercury by AMA analyzer	IMP 004 (AMA analyzer manual, ČSN 75 7440)	Sludge, sediments, waste and combustion products
4.04	Determination of metals by flame AAS ⁵	IMP 003-1 (ČSN ISO 8288, ČSN EN 1233, ČSN EN ISO 5961, ČSN ISO 7980, ČSN EN ISO 12020, ČSN ISO 9964-1, ČSN EN 13657, ČSN ISO 9964-2, ČSN 75 7400)	Sludge, sediments, waste and combustion products
4.05	Determination of chlorine by coulometry	IMP 088 – part B (ČSN EN 14077, ČSN EN ISO 9563)	Sludge, sediments, waste and combustion products
4.06	Determination of trace elements by AAS – hydride method ⁶	IMP 003-3 (ČSN EN ISO 11969:1997, ČSN P ISO/TS 17379-2, ČSN EN 13657)	Sludge, sediments, waste and combustion products

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
4.07	Determination of fluorine by ISE	IMP 089 (ČSN 44 1382:1993)	Sludge, sediments, waste and combustion products
4.08	Determination of trace elements by AAS – electrothermal method ⁷	IMP 003-2 (ČSN EN 1233, ČSN EN ISO 5961, ČSN EN ISO 12020, ČSN 75 7400, ČSN EN 13657)	Sludge, sediments, waste and combustion products
4.09	Determination of EOX by coulometry	IMP 092/LPOV – Part B (Mitsubishi TOX 300 manual)	Sludge, sediments, waste and combustion products
6	Air		
6.01*	Determination of the concentration of airborne dust (aerosol particles) in air by gravimetry	IMP 108/LIEM (ČSN EN ISO 13137)	Outdoor and indoor air
6.02*	Gravimetric determination of dustfall using sedimentation	IMP 109/LIEM (Government Regulation No. 350/2002 Coll., Annex No. 6, Part C)	Outdoor, indoor and workplace air
6.03*	Determination of total and respirable dust in air by gravimetry	IMP 107/LIEM (ČSN EN 481, ČSN EN 689, ČSN EN ISO 13137, ČSN ISO 7708, Government Regulation No. 361/2007 Coll.)	Workplace and non-workplace air
6.04*	Continuous measurement of the concentration of airborne dust (aerosol particles) PM10 and PM2.5 in air by radiometric and hybrid (radiometry and nephelometry) methods	IMP 104/LIEM (ČSN EN 12341, ČSN EN 16450, Horiba manual, Thermo Electron Corp. manual)	Outdoor and indoor air
7	Soils and building materials		
7.01	Determination of grain size	IMP 1/LTH (ČSN EN ISO 17892-4, ČSN EN 933-1, ČSN ISO 2591-1, ČSN 44 1340, ČSN ISO 1953, ČSN EN ISO 17827-2, ČSN 72 2080 cl. 11.3, ČSN 72 2071 cl 11.3)	Soils, granulates, desulfurization products, aggregates, granular materials, solid fuels, black coal, solid biofuels, fluid ash, ash

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
7.02*	Inspection of the compaction of soils and backfills	ČSN 72 1006 - direct methods, indirect test methods A, B, D	Soils, ash, granulates
7.03*	Determination of mass per unit volume Laboratory and field methods	IMP 3/LTH (ČSN EN ISO 17892-2, ČSN 72 1010 cl. A, C, D1, ČSN EN 12390-7:2009)	Soils, ash, granulates
7.04	Laboratory determination of apparent density (specific gravity) of solid particles	IMP 4/LTH (ČSN EN ISO 17892-3, ČSN EN 1097-7, ČSN 72 2080 cl. 11.5, ČSN 72 2071 cl. 11.5)	Soils, granulates, aggregates, fluid ash, ash
7.05	Laboratory determination of moisture and water by drying method by gravimetry	IMP 5/LTH (ČSN EN ISO 17892-1, ČSN EN ISO 18134-1, ČSN P CEN/TS 15414-1, ČSN EN 1097-5, ČSN 72 2080 cl. 11.4, ČSN 72 2071 cl. 11.4)	Soils, ash, granulates solid fuels, aggregates, fluid ash, ash
7.06	Laboratory determination of Atterberg limits	ČSN CEN ISO/TS 17892-12:2005	Soils
7.07	Laboratory determination of compactibility	ČSN EN 13286-2	Soils, ash, granulates
7.08	Laboratory determination of uniaxial compressive strength	IMP 8/LTH (ČSN CEN ISO/TS 17892-7:2005, ČSN EN 1926)	Soils, ash, granulates aggregates
7.09	Phase analysis by X-ray diffractometry	IMP 9/LTH (Siemens D5000 manual)	Materials in powder form
7.10	Determination of shear strength parameters by torsion shear tester	ČSN CEN ISO/TS 17892-10:2005	Soils materials, ash, granulates
7.11	Determination of durability by sodium sulphate	ČSN 72 1176, p. III.A	Backfilling materials, aggregates, granulates, artificial aggregates, bound mixtures
7.12	Determination of permeability	ČSN CEN ISO/TS 17892-11:2005	Soils, ash, granulates
7.13	Determination of the bearing ratio CBR and IBI	ČSN EN 13286-47	Soils, ash, granulates
7.14	Determination of fluidity by flow table test	ČSN EN 12350-5	Building mixtures, backfilling materials
7.15	Determination of frost resistance	ČSN 73 6124-1 Annex A	Backfilling materials, aggregates, granulates, artificial aggregates, bound mixtures

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
7.16	Determination of water absorption	ČSN EN 1097-6	Backfilling materials, aggregates, granulates
7.17	Determination of compressive strength of test specimens	ČSN EN 12390-3 ČSN EN 13286-41	Backfilling materials building mixtures
7.18	Determination of bulk density	ČSN EN 1097-3 ČSN EN ISO 17828 ČSN P CEN/TS 15401 ČSN 72 2080 cl. 11.2 ČSN 72 2071 cl. 11.2	Backfilling materials, aggregates, granulates, artificial aggregates, solid fuels, fluid ash, ash
7.19	Determination of compactness of non-cohesive soils	ČSN 72 1018	Soils
8.	Noise		
8.01*	Measurement of noise in a working environment	ČSN EN ISO 9612	Noise in a working environment
8.02*	Measurement of noise in a non-working environment	ČSN ISO 1996-1 ČSN ISO 1996-2	Noise in a non-working environment
8.03*	Noise emitted by machinery and equipment	ČSN EN ISO 3744 ČSN EN ISO 3746 ČSN EN ISO 11201 ČSN EN ISO 11202 ČSN EN ISO 11204 Government Regulation No. 9/2002 Coll., Annex 3, excl. cl. 11	Machines and equipment
9.	Machinery		
9.01*	Measurement of the balancing of giant machines and determination of the centre of gravity	IMP 001/LTD	Mining and stowing giant machines, bucket wheel loaders
9.02*	Measurement of safety equipment of giant machines	IMP 002/LTD	Mining and stowing giant machines, bucket wheel loaders, DPD equipment, mining equipment of floating machines

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 Aqueous extract according to the Regulation No. 294/2005 Coll.

⁴ F⁻, Cl⁻, Br⁻, I⁻, NO₂⁻, NO₃⁻, SO₄²⁻, PO₄³⁻

⁵ metals Ba, V, Ni, Cr, Pb, Cd, Zn, Ag, Cu, Al, Fe, Mn, Co, Ca, Mg, Na, K, Sr, Li

⁶ metals As, Sb, Se

⁷ metals Ba, Be, V, Ni, Cr, Pb, Cd, Ag, Al, Co, Tl, Sn, Mo, Te

⁸ congeners: PCB 28, PCB 52, PCB 110, PCB 118, PCB 152, PCB 138, PCB 180

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⁹ solid fuels: coke, black coal, brown coal, lignite, alternative fuels, biofuels

¹⁰ Determination: SiO₂, SO₃

¹¹ Determination: Fe₂O₃, Al₂O₃, CaO, MgO

¹² Determination: TiO₂, P₂O₅

¹³ Determination: MnO, Na₂O, K₂O

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1.01 - 1.20, 2.01 - 2.22, 3.01 - 3.12, 4.01 - 4.09, 6.01 - 6.04, 7.01 - 7.19, 8.01 - 8.03

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle is observed. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

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Sampling:

Ordinal number	Sampling procedure name	Sampling procedure identification ¹	Sampled object
10.	Sampling of solid, liquid and gaseous materials		
10.1	Sampling of water by manual surface sampling	IMP 106.1/ZAL part A (ČSN ISO 5667-4, ČSN EN ISO 5667-6)	Surface water
10.2	Sampling of waste and mine water by manual sampling	IMP 106.1/ZAL part B (ČSN ISO 5667-10)	Waste and mine water
10.3	Sampling of water by manual underground sampling	IMP 106.1/ZAL part C (ČSN ISO 5667-11)	Ground water
10.4	Sampling of liquids and pasty materials	IMP 106.1/ZAL part D (MoE Guideline for waste sampling; 04/2008; 101 pages)	Liquids and pasty materials
10.5	Sampling of solid and bulk materials, aggregates	IMP 106.3/ZAL (ČSN 72 1008:1980, ČSN 01 5111, ČSN 72 1152, ČSN EN 932-1, MoE Guideline for waste sampling; 04/2008; 101 pages)	Solid and bulk materials, aggregates
10.6	Sampling of total and respirable fraction of dust	IMP 107/LIEM (ČSN EN 481, ČSN EN 689, ČSN EN ISO 13137, ČSN ISO 7708, Government Regulation No. 361/2007 Coll.)	Workplace and non-workplace air
10.7	Sampling of airborne dust by manual sampling	IMP 108/LIEM (ČSN EN ISO 13137)	Outdoor and indoor air
10.8	Sampling of dustfall	IMP 109/LIEM (Government Regulation No. 350/2002 Coll., Annex No. 6, part C)	Outdoor, indoor and working air
10.9	Sampling of solid fuels	IMP 106.2/ZAL (ČSN 44 1304, ČSN 44 1308, ČSN ISO 5069-1, ČSN ISO 13909-3 ČSN EN 15442 ČSN EN ISO 18135)	Solid fuels ²

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)

² solid fuels: coke, black coal, brown coal, lignite, alternative fuels, biofuels

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List of measuring stations:

Measuring stations	Code of the test carried out
Braňany	6.04
Březno	6.04
Černovice	6.04
Droužkovice	6.04
Duchcov	6.04
Chotějovice	6.04
Kadaň – výsypka	6.04
Ledvice	6.04
Mariánské Radčice	6.04
Lom 2	6.04
Málkov - Zelená	6.04
Osek	6.04
Spořice	6.04

Abbreviations used:

IMP	– Internal Guideline
COD	– Chemical Oxygen Demand
PCB	– Polychlorinated Biphenyls
AOX	– Adsorbable Organically Bound Halogens
EOX	– Extractable Organically Bound Halogens
BTEXS	– benzene, toluene, ethylbenzene, xylenes, styrene
GC	– Gas Chromatography
IC	– Ion Chromatography
ISE	– Ion Selective Electrode
CBR	– California Bearing Ratio
DPD	– Long-Distance Belt Transport
AAS	– Atomic Absorption Spectrometry
X-ray	– X-ray
UV	– Ultraviolet
FID	– Flame Ionization Detector
ECD	– Electron Capture Detector (Ni ⁶³)
TCD	– Thermal Conductivity Detector