DECLARATION OF QUALITY

METRANAL$^{\circledR}$ 14

Quality Control Material (QCM)

Matrix: **River sediment (RS-01-2), (metals)**
Powdered material, grain size < 100 µm

The material is primarily designed for internal and external quality control purposes in the determination of total element contents and contents of element fraction extractable by the below described conventional procedures in soils and materials of similar matrix (quality control charts, inter-laboratory comparisons, estimation of bias etc.) but not for ensuring traceability of measurements and calibration purposes.

Analyte	Concentration (mg/kg)[1)3)]	Uncertainty (mg/kg)[2)]
Ag	2,00	0,12
As	27,6	1,5
Ba	221	26
Be	0,63	0,05
Ca	6325	430
Cd	1,49	0,08
Co	6,00	0,42
Cr	36,6	1,5
Cu	127	4
Hg	8,67	0,26
Mn	400	32
Mo	2,30	0,28
Ni	24,9	0,7
Pb	93,2	2,8
Sb	5,31	0,55
Se	0,94	0,10
Sn	5,30	0,55
V	21,3	1,9
Zn	600	21

1) Dry mass at 105 °C
2) Expanded combined uncertainty (k÷2)
3) Aqua regia exctractable content according to ISO 11466(1995)

The property values were assigned in several experienced and accredited laboratories (ISO 17025) by using validated analytical methods.

The sample is stabilized by radiation (25 kGy).

RM is valid until expiry date indicated in the certificate, provided the RM is properly stored in the original closed bottle and professionally handled. This Declaration of Analysis is nullified if the RM is damaged, contaminated, or otherwise modified.

Analytika$^{\circledR}$, spol. s r.o. will monitor this RM over the period of its validity. If substantive changes of reference values occur, Analytika$^{\circledR}$, spol. s r.o. will notify the purchaser.

Packing:	60 g in an amber glass bottle
Batch No.:	**004**
Declaration issue date:	14 April 2015
Declaration revision date:	19 June 2020
Expiration:	**31 December 2022**
Producer:	ANALYTIKA$^{\circledR}$, spol. s r.o.
Production unit Manager:	Mgr. Mirka Petránková
Signed:	

Petránková

Declaration version n. 3

Declaration Revision History:
19th June 2020 (extension of expiry period)
22nd July 2016 (Extension of the period of validity; Editorial changes)