Attachment no. 1 to the Certificate of Analysis for work order PR2056638

Sample:

ALS SAMPLE ID: PR2056638/ 001
Measurement results PCBs:

Sample:	Zemplínska Šírava - pláž				
			Final extract [µl]:		250
			Injection volume [µl]:		4
Sample volume [l]:	0.5		Acquisition date [d.m.y h:m]:		19.06.2020
PCB groups	Result [ng/l]	Limit of Detection [ng/l]	Limit of Quantification [ng/l]	ΣPCB Lowerbound	ΣPCB Upperbound [ng/l]
mono-PCBs	< 0.18	0.018	0.18	0	0.18
di-PCBs	< 0.32	0.0081	0.32	0	0.32
tri-PCBs	< 17	0.014	17	0	17
tetra-PCBs	< 13	0.017	13	0	13
penta-PCBs	< 19	0.0064	19	0	19
hexa-PCBs	< 25	0.012	25	0	25
hepta-PCBs	< 8.3	0.02	8.3	0	8.3
okta-PCBs	< 0.97	0.024	0.97	0	0.97
nona-PCBs	< 0.33	0.033	0.33	0	0.33
deca-PCBs	< 0.021	0.021	0.071	0	0.021
Σ PCB -„Lowerbound				**0**	
Σ PCB -„Upperbound"					**84**

Limits of quantification are defined on the base of blank level.
The limit of detection is defined as the amount of analyte producing a signal with S/N≥3.
The value of the detection limit is mentioned as the actual value at the acquisition date.
Measurement uncertainty is expressed as a double (k=2) relative standard deviation (RSD%), and corresponds to 95% confidence interval.
Estimation of uncertainty of each PCB congener is 30%, total TEQ and PCB6/PCB7 is 20%.
These values were ensured by analyses of certified reference material under conditions of internal reproducibility.
Results marked "<" are lower than the limit of detection or quantification.
"Lowerbound" and "Upperbound" are levels defined in Regulation 2017/644 and EN 1948-4.
"Mediumbound" is level defined in Regulation 2017/644.