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Marine Sediment - Trace elements

Art. ID	IAEA-475
Unit	20 g
Deliverydetails	No Dangerous Good /not restricted

Description

IAEA-475 coastal sediment was collected around Townsville, Australia during the sampling campaign organised by the Marine Environment Study Laboratory (MESL), James Cook University and ANSTO, Australia. The certified mass fraction values were established on the basis of results reported to the IAEA-MESL by 8 laboratories (14 data sets). Laboratories were requested to analyse Ag, Al, As, Cd, Co, Cr, Cu, Fe, Hg, MeHg, Li, Mn, Ni, Pb, Sr, and Zn using validated analytical method. This Certified Reference Material is intended to be used for quality assurance and quality control purposes. The IAEA-475 Certified Reference Material is also suitable for method development and validation of analytical procedures, including potential bias evaluation, and for training purposes.

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
Certified value	Aluminium (Al)	[7429-90-5]	74400 ± 8100	mg/kg		
Certified value	Arsenic (As)	[7440-38-2]	12,6 ± 1,2	mg/kg		
Certified value	Cobalt (Co)	[7440-48-4]	12,36 ± 0,83	mg/kg		
Certified value	Chromium (Cr)	[7440-47-3]	65,8 ± 3,6	mg/kg		
Certified value	Copper (Cu)	[7440-50-8]	27,8 ± 2,2	mg/kg		
Certified value	Iron (Fe)	[7439-89-6]	34200 ± 2500	mg/kg		
Certified value	Mercury (Hg)	[7439-97-6]	29900 ± 2300	mg/kg		
Certified value	Nickel (Ni)	[7440-02-0]	28,5 ± 1,8	mg/kg		
Certified value	Lead (Pb)	[7439-92-1]	29,9 ± 2,3	mg/kg		
Certified value	Zinc (Zn)	[7440-66-6]	100,1 ± 9	mg/kg		
Certified value	Lithium (Li)	[7439-93-2]	40,6 ± 3,1	mg/kg		
Certified value	Manganese (Mn)	[7439-96-5]	566 ± 46	mg/kg		
Certified value	Strontium (Sr)	[7440-24-6]	249 ± 15	mg/kg		
Information value only	Silver (Ag)	[7440-22-4]	0,121 ± 0,036	mg/kg		
Information value only	Cadmium (Cd)	[7440-43-9]	0,066 ± 0,01	mg/kg		