



**The IAEA-TEL-2011-03 world wide open proficiency test on the determination
of natural and artificial radionuclides in water and soil**

**Laboratory's Final Report
Laboratory Code: 22 (CuNo: 13949)
Total Pages (with cover): 6**



Reporting Form F-01

IAEA-TEL-2011-03 worldwide open proficiency test on the determination of radionuclides in soil and water

Address Information, Laboratory No. 22

Sample requested by: Laboratory No. 22 (13949)

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Reporting Form F-02

IAEA-TEL-2011-03 worldwide open proficiency test on the determination of radionuclides in soil and water

Data Sheet, Laboratory No. 22, Sample 01, Spiked Water

Table of Results

Analyte	Activity (*) [Bq/kg]	Combined Standard Unc [Bq/kg](**)	Minimum(***) Detection limit [Bq/kg]
Co-60	14.95	0.62	0.170
Ba-133	4.625	0.143	0.224
Cs-134	6.258	0.497	0.145
Cs-137	5.975	0.206	0.196
Eu-152	14.80	0.61	0.509
Am-241	4.635	0.341	0.533
H-3			

(*) Activity of each measured nuclide

(**) Combined standard uncertainty of individual determination expressed in (Bq/kg)

(***) Detection limit should be reported in the same unit as the results (Bq/kg)

Reporting Form F-02

IAEA-TEL-2011-03 worldwide open proficiency test on the determination of radionuclides in soil and water

Data Sheet, Laboratory No. 22, Sample 02, Spiked Water

Table of Results

Analyte	Activity (*) [Bq/kg]	Combined Standard Unc [Bq/kg](**)	Minimum(***) Detection limit [Bq/kg]
Co-60	7.312	0.311	0.174
Ba-133	2.268	0.083	0.227
Cs-134	3.162	0.258	0.144
Cs-137	3.014	0.161	0.188
Eu-152	7.261	0.486	0.522
Am-241	2.340	0.122	0.534
H-3			

(*) Activity of each measured nuclide

(**) Combined standard uncertainty of individual determination expressed in (Bq/kg)

(***) Detection limit should be reported in the same unit as the results (Bq/kg)

Reporting Form F-02

IAEA-TEL-2011-03 worldwide open proficiency test on the determination of radionuclides in soil and water

Data Sheet, Laboratory No. 22, Sample 03, Spiked Water

Table of Results

Analyte	Activity (*) [Bq/kg]	Combined Standard Unc [Bq/kg](**)	Minimum(***) Detection limit [Bq/kg]
Co-60	10.48	0.44	0.165
Ba-133	3.273	0.106	0.207
Cs-134	4.424	0.373	0.138
Cs-137	4.235	0.173	0.203
Eu-152	10.52	0.41	0.414
Am-241	3.261	0.137	0.480
H-3			

(*) Activity of each measured nuclide

(**) Combined standard uncertainty of individual determination expressed in (Bq/kg)

(***) Detection limit should be reported in the same unit as the results (Bq/kg)

Reporting Form F-02

IAEA-TEL-2011-03 worldwide open proficiency test on the determination of radionuclides in soil and water

Data Sheet, Laboratory No. 22, Sample 04, Soil

Table of Results

Analyte	Activity (*) [Bq/kg]	Combined Standard Unc [Bq/kg](**)	Minimum(***) Detection limit [Bq/kg]
K-40	529.2	23.9	2.47
Sr-90			
Cs-137	13.02	0.41	0.152
Tl-208	12.43	1.02	0.155
Pb-210	41.24	3.00	2.65
Po-210			
Pb-212	35.57	2.26	0.244
Pb-214	34.78	2.24	0.410
Bi-214	40.27	3.08	0.426
Ra-226	36.80	2.00	0.410
Ac-228	34.54	2.20	0.874
U-234			
U-235			
U-238			
Am-241			
Pu-238			
Pu-239m			
Pu-240			

(*) Activity of each measured nuclide

(**) Combined standard uncertainty of individual determination expressed in (Bq/kg)

(***) Detection limit should be reported in the same unit as the results (Bq/kg)