

## EnviroMAT™

EnviroMAT™ Matrix Reference Materials are a cost effective solution for daily quality control verification for ICP, ICP-MS, GFAA and AA analytical techniques.

### KEY FEATURES

- ◆ The Reference Values are based on the results of a round-robin analysis performed by 22 laboratories (U.S.A. and Canada), including environment, industry and government. Round-robin protocols consisted of both an Acid Leach and Total Acid Digest followed by spectrometric analysis.
- ◆ A Certificate of Analysis (designed as per ISO Guide 31 – “Reference Materials - contents of certificates, labels, and accompanying documentation”) listing certified values as well as confidence and tolerance levels for both the acid leach and total digestion is included with each standard (calculations for protocols outlined in ISO Guide 35 – “Certification of Reference Materials”).
- ◆ Complete sampling, handling and digestion method information is included.



EnviroMAT™ STANDARDS DESCRIPTION	SYMBOL	CODE	QUANTITY	CATALOG NUMBER
Soil, Contaminated	SS-1	---	100 g	140-025-001
Soil, Contaminated	SS-2	---	100 g	140-025-002
Sludge, Sewage	BE-1	---	50 g	140-025-011
Water, Drinking, Low Level, Concentrate	EP-L-1	✓ (8)	2 x 25 ml	140-025-131
Water, Drinking, Low Level, Concentrate	EP-L-1	✓ (8)	250 ml	140-025-031
Water, Drinking, High Level, Concentrate	EP-H-1	✓ (8)	2 x 25 ml	140-025-132
Water, Drinking, High Level, Concentrate	EP-H-1	✓ (8)	250 ml	140-025-032
Water, Drinking, High & Low	SET	✓ (8)	250 ml	140-025-030
Water, Ground, Low Level, Concentrate	ES-L-1	✓ (8)	2 x 25 ml	140-025-134
Water, Ground, Low Level, Concentrate	ES-L-1	✓ (8)	250 ml	140-025-034
Water, Ground, High Level, Concentrate	ES-H-1	✓ (8)	2 x 25 ml	140-025-135
Water, Ground, High Level, Concentrate	ES-H-1	✓ (8)	250 ml	140-025-035
Water, Ground, High & Low	SET	✓ (8)	250 ml	140-025-033
Water, Waste, Low Level, Concentrate	EU-L-1	✓ (8)	2 x 25 ml	140-025-137
Water, Waste, Low Level, Concentrate	EU-L-1	✓ (8)	250 ml	140-025-037
Water, Waste, High Level, Concentrate	EU-H-1	✓ (8)	2 x 25 ml	140-025-138
Water, Waste, High Level, Concentrate	EU-H-1	✓ (8)	250 ml	140-025-038
Water, Waste, High & Low	SET	✓ (8)	250 ml	140-025-036
Oil, Used	HU-1	---	125 ml	140-025-041
Lead in Paint, Level 1 - NEW	LP-1	---	20 g	140-025-200
Lead in Paint, Level 2 - NEW	LP-2	---	20 g	140-025-201

### CALL FOR MORE INFORMATION

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# Certificate of Analysis

**Catalogue Number:** 140-025-002  
**Description:** Matrix Reference Material  
*EnviroMAT Contaminated Soil (SS-2-2)*  
**Lot Number:** S150827031  
**Date of Initial Certification:** October 30<sup>th</sup>, 2015  
**Date of Last Verification:** N/A  
**Expiration date:** 2 years after shipping date

Elements	Unit	Consensus Value	Uncertainty +/-	Confidence Interval	Tolerance Interval
Ag	mg/kg	3.9	0.2	3.6 - 4.1	1.8 - 6.0
Al	mg/kg	9548	294	9254 - 9842	7060 - 12 036
As	mg/kg	3.36	0.17	3.18 - 3.53	1.77 - 4.94
B	mg/kg	8.5	0.4	8.1 - 9.0	5.9 - 11.1
Ba	mg/kg	100	2	98 - 102	80 - 119
Be	mg/kg	0.34	0.01	0.33 - 0.36	0.25 - 0.44
Ca	mg/kg	31 082	563	30 519 - 31 645	26 317 - 35 847
Cd	mg/kg	0.91	0.03	0.88 - 0.94	0.65 - 1.17
Ce	mg/kg	----	----	----	----
Co	mg/kg	6.9	0.3	6.6 - 7.2	4.0 - 9.8
Cr	mg/kg	92.6	4.1	88.4 - 96.7	54.2 - 131
Cu	mg/kg	120	2	118 - 122	99 - 141
Fe	mg/kg	23 083	597	22 486 - 23 680	17 888 - 28 278
Hg	mg/kg	0.059	0.004	0.055 - 0.063	0.034 - 0.084
K	mg/kg	1671	87	1584 - 1758	907 - 2435
Li	mg/kg	9.5	0.6	8.8 - 10.1	5.9 - 13.1
Mg	mg/kg	5132	158	4975 - 5290	3798 - 6467
Mn	mg/kg	252	7	245 - 258	191 - 313
Mo	mg/kg	1.03	0.04	0.99 - 1.07	0.69 - 1.38
Na	mg/kg	797	37	760 - 833	486 - 1107
Ni	mg/kg	25.1	0.6	24.5 - 25.6	19.6 - 30.6
P	mg/kg	752	18	735 - 770	614 - 891
Pb	mg/kg	244	5	239 - 250	192 - 297
S	mg/kg	550	25	525 - 574	395 - 705
Sb	mg/kg	3.5	0.4	3.1 - 3.8	0.5 - 6.4
Se	mg/kg	0.49	0.10	0.39 - 0.58	0 - 1.04
Sn	mg/kg	10.6	0.4	10.1 - 11.0	7.1 - 14.1
Sr	mg/kg	80	2	77 - 82	60 - 99
Tl	mg/kg	0.084	0.006	0.078 - 0.089	0.054 - 0.114
U	mg/kg	0.52	0.02	0.50 - 0.54	0.40 - 0.64
V	mg/kg	30.0	0.7	29.2 - 30.7	23.7 - 36.3
Y	mg/kg	----	----	----	----
Zn	mg/kg	281	7	274 - 288	220 - 342