

Matrix Reference Materials - SCP SCIENCE

EnviroMAT™

SS-1

Catalogue No.: 140-025-001		EnviroMAT™ Contaminated Soil		Lot No.: SC0063618		100 g	
TOTAL DIGESTION VALUES							
Elements	Reference Value (mg/kg)	Confidence Interval (mg/kg)		Tolerance Interval (mg/kg)			
Ag	0.88	0.85 – 0.91		0.72 – 1.04			
Al	12 163	11 753 – 12 572		9 579 – 14 746			
As	20.7	19.7 – 21.8		14.0 – 27.5			
B	26.9	18.5 – 35.2		0.0 – 77.8			
Ba	464	448 – 480		359 – 569			
Be	0.48	0.43 – 0.53		0.22 – 0.74			
Ca	50 265	49 052 – 51 478		42 222 – 53 308			
Cd	3.2	3.0 – 3.5		1.8 – 4.7			

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Ce	(40.1)	----	----
Co	12.9	12.5 – 13.4	10.2 – 15.7
Cr	103	97.9 – 109	66.6 – 140
Cu	403	393 – 413	334 – 472
Fe	72 00	69 728 – 74 273	57 212 – 86 789
Hg	0.41	0.39 – 0.43	0.29 – 0.53
K	2232	2082 – 2382	1257 – 3208
Li	14.3	12.9 – 15.8	6.4 – 22.3
Mg	9690	9459 – 9920	8141 – 11 239
Mn	737	718 – 756	605 – 869
Mo	6.8	6.5 – 7.2	4.7 – 9.0
Na	650	587 – 714	235 – 1066
Ni	59.2	57.9 – 60.5	50.4 – 68.0

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P	1552	1518 – 1586	1329 – 1775
Pb	764	749 – 779	665 – 863
S	1916	1776 – 2057	1045 – 2787
Sb	5.5	4.4 – 6.6	0.0 – 12.0
Se	0.78	0.64 – 0.92	0.02 – 1.54
Sn	340	324 – 357	245 – 436
Sr	114	113 - 116	106 – 122
Ti	530	473 – 587	195 – 865
Tl	(0.19)	----	----
U	(0.76)	----	----
V	27.2	25.9 – 28.6	18.8 – 35.7
Zn	1114	1078 – 1151	860 – 1369

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SS-2

Catalogue No.: 140-025-002	<i>EnviroMAT™</i> Contaminated Soil	Lot No.: SS-2	100 g
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TOTAL DIGESTION VALUES

Elements	Reference Value (ppm)	Confidence Interval (ppm)	Tolerance Interval (ppm)
Ag	(3)	----	----
Al	44,853	37,791 - 51,915	8005 - 81,701
As	78	62 - 94	5 - 151
B	----	----	----
Ba	650	594 - 706	380 - 920
Be	(4)	----	----
Ca	118,738	106,798 - 130,678	56,442 - 181,034
Cd	(2)	----	----
Ce	(79)	----	----

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Co	14	13 - 15	7 - 21
Cr	58	51 - 65	21 - 95
Cu	198	189 - 207	155 - 241
Fe	29,070	27,262 - 30,878	19,638 - 38,502
Hg	(0.34)	----	----
K	18,119	16,349 - 19,889	9096 - 27,142
Li	(20)	----	----
Mg	14,225	12,995 - 15,455	7953 - 20,497
Mn	577	545 - 609	409 - 745
Mo	(4)	----	----
Na	12,539	11,362 - 13,716	6830 - 18,248
Ni	59	55 - 63	42 - 76
P	814	744 - 884	483 - 1145

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Pb	148	130 - 166	63 - 233
S	(2254)	----	----
Sb	(6)	----	----
Se	(1)	----	----
Sn	(6)	----	----
Sr	382	351 - 413	226 - 538
Ti	2893	2664 - 3122	1753 - 4033
Tl	(0.6)	----	----
U	(2)	----	----
V	59	54 - 64	36 - 82
Y	(21)	----	----
Zn	509	479 - 539	362 - 656

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BE-1

Catalogue No.: 140-025-011		EnviroMAT™ Sewage Sludge		Lot No.: BE-1		50 g	
Element	Consensus Value (mg/kg)	Confidence Interval (mg/kg)		Tolerance Interval (mg/kg)			
Ag	21	20 – 22		15 – 27			
Al	43917	42324 – 45510		34552 – 53282			
As	4.6	4.1 – 5.1		1.8 – 7.4			
B	(9.9)	-----		-----			
Ba	446	413 – 479		251 – 641			
Be	0.21	0.17 – 0.25		0.01 – 0.41			
Ca	28636	27185 – 30087		20253 – 37019			
Cd	1.9	1.6 – 2.2		0 – 3.8			
Co	2.3	2.1 – 2.5		0.9 – 3.7			
Cr	34	31 – 37		18 – 50			

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Cu	408	392 – 424	305 – 511
Fe	8925	8478 – 9372	6254 – 11596
Hg	1.3	1.1 – 1.5	0.2 – 2.4
K	2273	2034 – 2512	970 – 3576
Li	3.6	3.0 – 4.2	0.7 – 6.5
Mg	3808	3600 – 4016	2605 – 5011
Mn	213	205 – 221	164 – 262
Mo	6.4	5.9 – 6.9	3.4 – 9.4
Na	1459	1260 – 1658	469 – 2449
Ni	14	13 – 15	6 – 22
P	29826	27906 – 31746	20757 – 38895
Pb	57	53 – 61	28 – 86
S	(8048)	-----	-----

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Sb	(0.9)	----	----
Se	2.9	2.4 – 3.4	0 – 5.8
Sn	(16)	----	----
Sr	349	331 – 367	252 – 446
Ti	(91)	----	----
U	(2.1)	----	----
V	12	11.5 – 12.5	9 – 15
Zn	381	367 – 395	296 – 466

EP-L-2

Element	Consensus Value (ppm)	Confidence Interval (ppm)	Tolerance Interval (ppm)
Al	0.10	0.10 – 0.11	0.07 – 0.13

(250 ml) Catalogue No.: 140-025-031	(2x25 ml) Catalogue No.: 140-025-131	<i>EnviroMAT™</i> Drinking Water - LOW	Lot No.: EP-L-2
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As	0.010	0.009 – 0.010	0.006 – 0.013
B	0.080	0.075 – 0.086	0.052 – 0.108
Ba	0.008	0.008 – 0.009	0.007 – 0.010
Be	0.002	0.0016 – 0.0020	0.001 – 0.003
Ca	0.43	0.42 – 0.45	0.34 – 0.53
Cd	0.002	0.0019 – 0.0020	0.0017 – 0.0022
Co	0.010	0.009 – 0.010	0.008 – 0.012
Cr	0.013	0.013 – 0.014	0.011 – 0.016
Cu	0.016	0.016 – 0.017	0.014 – 0.019
Fe	0.028	0.024 – 0.032	0.005 – 0.050
K	0.41	0.38 – 0.43	0.25 – 0.56
Li	----	----	----
Mg	0.041	0.038 – 0.045	0.025 – 0.057

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Mn	0.006	0.0058 – 0.0062	0.005 – 0.007
Mo	0.023	0.022 – 0.024	0.017 – 0.030
Na	0.23	0.21 – 0.25	0.11 – 0.35
Ni	0.020	0.020 – 0.021	0.017 – 0.023
P	(0.021)	not certified	not certified
Pb	0.004	0.0035 – 0.0054	0.000 – 0.010
Sb	0.012	0.011 – 0.013	0.007 – 0.017
Se	0.059	0.057 – 0.061	0.048 – 0.071
Sr	0.14	0.14 – 0.14	0.12 – 0.15
Tl	0.006	0.0057 – 0.0062	0.004 – 0.007
U	----	----	----
V	0.014	0.013 – 0.014	0.010 – 0.017
Zn	0.043	0.040 – 0.045	0.027 – 0.058

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EP-H-1

(250 ml) Catalogue No.: 140-025-032		(2x25 ml) Catalogue No.: 140-025-132		<i>EnviroMAT™</i> Drinking Water - HIGH	Lot No.: EP-H-1
Element	Consensus Value (ppm)	Confidence Interval (ppm)		Tolerance Interval (ppm)	
Al	0.92	0.88 – 0.96		0.67 – 1.17	
As	0.40	0.38 – 0.42		0.26 – 0.54	
B	9.88	9.51 – 10.25		7.71 – 12.05	
Ba	2.01	1.97 – 2.05		1.76 – 2.26	
Be	0.16	0.15 – 0.17		0.12 – 0.20	
Ca	22.1	21.6 – 22.6		19.1 – 25.1	
Cd	0.20	0.19 – 0.21		0.17 – 0.23	
Co	0.095	0.092 – 0.098		0.079 – 0.111	
Cr	0.68	0.66 – 0.70		0.57 – 0.79	
Cu	0.50	0.49 – 0.51		0.42 – 0.58	

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Fe	1.48	1.43 – 1.53	1.14 – 1.82
K	12.8	12.3 – 13.3	10.0 – 15.6
Li	0.71	0.68 – 0.74	0.57 – 0.85
Mg	4.83	4.75 – 4.91	4.35 – 5.31
Mn	0.34	0.33 – 0.35	0.28 – 0.40
Mo	0.52	0.51 – 0.53	0.44 – 0.60
Na	21.6	21.2 – 22.0	19.1 – 24.1
Ni	0.83	0.80 – 0.86	0.64 – 1.02
P	0.42	0.40 – 0.44	0.33 – 0.51
Pb	0.63	0.61 – 0.65	0.48 – 0.78
Sb	0.21	0.20 – 0.22	0.13 – 0.29
Se	0.32	0.30 – 0.34	0.23 – 0.41
Sr	0.95	0.93 – 0.97	0.85 – 1.05

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Tl	0.26	0.25 – 0.27	0.20 – 0.32
U	0.097	0.092 – 0.102	0.070 – 0.124
V	0.99	0.96 – 1.02	0.81 – 1.17
Zn	5.01	4.82 – 5.20	3.87 – 6.15

ES-L-1

(250 ml) Catalogue No.: 140-025-034		(2x25 ml) Catalogue No.: 140-025-134		EnviroMAT™ Ground Water, LOW	Lot No.: ES-L-1
Element	Consensus Value (ppm)	Confidence Interval (ppm)		Tolerance Interval (ppm)	
Al	0.094	0.085 – 0.103		0.039 - 0.149	
As	0.011	0.010 – 0.012		0.008 – 0.014	
B	(0.036)	-----		-----	
Ba	0.050	0.048 – 0.052		0.039 – 0.061	
Be	0.052	0.051 – 0.053		0.044 – 0.060	

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Ca	0.25	0.24 – 0.26	0.21 – 0.29
Cd	0.010	0.009 – 0.011	0.007 – 0.013
Co	0.051	0.050 – 0.052	0.043 – 0.059
Cr	0.020	0.0196 – 0.0204	0.017 – 0.023
Cu	0.020	0.018 – 0.022	0.009 – 0.031
Fe	0.021	0.019 – 0.023	0.007 – 0.035
K	0.18	0.16 – 0.20	0.09 – 0.27
Li	0.050	0.049 – 0.051	0.043 – 0.057
Mg	0.110	0.105 – 0.115	0.082 – 0.138
Mn	0.096	0.093 – 0.099	0.073 – 0.119
Mo	0.011	0.010 – 0.012	0.008 – 0.014
Na	1.27	1.13 – 1.41	0.47 – 2.07
Ni	0.010	0.0096 – 0.0104	0.007 – 0.013

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P	(0.005)	----	----
Pb	(0.002)	----	----
Sb	0.006	0.005 – 0.007	0.003 – 0.009
Se	(0.001)	----	----
Sr	0.121	0.116 – 0.126	0.091 – 0.151
Tl	0.071	0.068 – 0.074	0.051 – 0.091
U	0.050	0.049 – 0.051	0.043 – 0.057
V	0.010	0.009 – 0.011	0.007 – 0.013
Zn	0.021	0.020 – 0.022	0.013 – 0.029

ES-H-1

(250 ml) Catalogue No.: 140-025-035	(2x25 ml) Catalogue No.: 140-025-135	<i>EnviroMAT</i> [™] Ground Water, HIGH	Lot No.: ES-H-1
Element	Consensus Value (ppm)	Confidence Interval (ppm)	Tolerance Interval (ppm)

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Al	0.55	0.52 – 0.58	0.39 – 0.71
As	1.03	0.99 – 1.07	0.81 – 1.25
B	4.07	3.90 – 4.24	3.03 – 5.11
Ba	8.26	8.11 – 8.41	7.33 – 9.19
Be	0.53	0.52 – 0.54	0.48 – 0.58
Ca	13.9	13.5 – 14.3	11.0 – 16.8
Cd	0.51	0.50 – 0.52	0.46 – 0.56
Co	0.30	0.29 – 0.31	0.25 – 0.35
Cr	0.98	0.96 – 1.00	0.82 – 1.14
Cu	1.99	1.93 – 2.05	1.63 – 2.35
Fe	3.02	2.94 – 3.10	2.50 – 3.54
K	6.45	6.12 – 6.78	4.35 – 8.55
Li	0.25	0.24 – 0.26	0.19 – 0.31

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Mg	9.11	8.99 – 9.23	8.31 – 9.91
Mn	0.79	0.77 – 0.81	0.69 – 0.89
Mo	1.03	1.02 – 1.04	0.95 – 1.11
Na	43.3	42.6 – 44.0	38.8 – 47.8
Ni	2.01	1.96 – 2.06	1.67 – 2.35
P	1.12	1.02 – 1.22	0.63 – 1.61
Pb	0.33	0.32 – 0.34	0.25 – 0.41
Sb	0.11	0.106 – 0.114	0.08 – 0.14
Se	0.077	0.074 – 0.080	0.057 – 0.097
Sr	2.53	2.50 – 2.56	2.34 – 2.72
Tl	0.104	0.102 – 0.106	0.093 – 0.115
U	0.49	0.47 – 0.51	0.37 – 0.61
V	2.02	1.98 – 2.06	1.78 – 2.26

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Zn	2.00	1.95 – 2.05	1.64 – 2.36
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EU-L-1

(250 ml) Catalogue No.: 140-025-037		(2x25 ml) Catalogue No.: 140-025-137		<i>EnviroMAT™</i> Waste Water LOW	Lot No.: EU-L-1
Element	Consensus Value (ppm)	Confidence Interval (ppm)		Tolerance Interval (ppm)	
Al	0.15	0.12 – 0.18		0 – 0.32	
As	0.21	0.20 – 0.22		0.15 – 0.27	
B	0.25	0.24 – 0.26		0.18 – 0.32	
Ba	0.30	0.29 – 0.31		0.27 – 0.33	
Be	0.03	0.029 – 0.031		0.02 – 0.04	
Ca	4.03	3.91 – 4.15		3.26 – 4.80	
Cd	0.06	0.058 – 0.062		0.05 – 0.07	
Co	0.20	0.197 – 0.203		0.18 – 0.22	

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Cr	0.15	0.147 – 0.153	0.13 – 0.17
Cu	0.26	0.25 – 0.27	0.22 – 0.30
Fe	0.11	0.10 – 0.12	0.08 – 0.14
K	4.49	4.39 – 4.59	3.93 – 5.05
Mg	1.24	1.21 – 1.27	1.08 – 1.40
Mn	0.30	0.29 – 0.31	0.25 – 0.35
Mo	0.10	0.097 – 0.103	0.08 – 0.12
Na	10.4	10.2 – 10.6	9.3 – 11.5
Ni	0.20	0.196 – 0.204	0.17 – 0.23
P	2.67	2.58 – 2.76	2.20 – 3.14
Pb	0.10	0.098 – 0.102	0.09 – 0.11
Sb	0.06	0.05 – 0.07	0.02 – 0.10
Se	0.07	0.067 – 0.073	0.05 – 0.09

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Sr	0.38	0.37 – 0.39	0.33 – 0.43
Tl	0.20	0.19 – 0.21	0.16 – 0.24
V	0.12	0.116 – 0.124	0.09 – 0.15
Zn	0.06	0.057 – 0.063	0.04 – 0.08

EU-H-1

(250 ml) Catalogue No.: 140-025-038		(2x25 ml) Catalogue No.: 140-025-138		<i>EnviroMAT</i> TM Waste Water HIGH	Lot No.: EU-H-1
Element	Consensus Value (ppm)	Confidence Interval (ppm)		Tolerance Interval (ppm)	
Al	0.45	0.43 – 0.47		0.33 – 0.57	
As	0.86	0.81 – 0.91		0.56 – 1.16	
B	0.87	0.78 – 0.96		0.39 – 1.35	
Ba	1.26	1.23 – 1.29		1.07 – 1.45	
Be	0.52	0.50 – 0.54		0.43 – 0.61	

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Ca	40.6	39.8 – 41.4	35.9 – 45.3
Cd	0.31	0.30 – 0.32	0.27 – 0.35
Co	0.74	0.72 – 0.76	0.63 – 0.85
Cr	0.46	0.45 – 0.47	0.40 – 0.52
Cu	0.93	0.91 – 0.95	0.76 – 1.10
Fe	0.65	0.62 – 0.68	0.46 – 0.84
K	43.7	42.4 – 45.0	36.4 – 51.0
Mg	13.8	13.6 – 14.0	12.6 – 15.0
Mn	0.52	0.51 – 0.53	0.42 – 0.62
Mo	0.82	0.80 – 0.84	0.69 – 0.95
Na	43.0	42.2 – 43.8	38.3 – 47.7
Ni	0.88	0.86 – 0.90	0.74 – 1.02
P	12.7	12.1 – 13.3	9.6 – 15.8

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Pb	0.73	0.72 – 0.74	0.65 – 0.81
Sb	0.63	0.60 – 0.66	0.43 – 0.83
Se	0.17	0.16 – 0.18	0.09 – 0.25
Sr	1.09	1.06 – 1.12	0.89 – 1.29
Tl	0.48	0.46 – 0.50	0.35 – 0.61
V	0.96	0.94 – 0.98	0.85 – 1.07
Zn	1.00	0.97 – 1.03	0.77 – 1.23

HU-1

Catalogue No.: 140-025-041		<i>EnviroMAT™</i> Used Oil	Lot No.: HU-1	125 ml
Element	Consensus Value (mg/kg)	Confidence Interval (mg/kg)	Tolerance Interval (mg/kg)	
Ag	13	10 – 16	0 – 29	
Al	14	11 – 17	0 – 31	

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Ba	9	8.5 – 9.5	6 – 12
Ca	72	67 – 77	43 – 101
Cd	15	14 – 16	11 – 19
Cr	15	13 – 17	6 – 24
Cu	3132	2906 – 3358	1854 – 4410
Fe	59	53 – 65	26 – 92
K	(11)	----	----
Mg	11	10 – 12	6 – 16
Mn	18	17 – 19	13 – 23
Mo	11	10 – 12	6 – 16
Na	(20)	----	----
Ni	45	42 – 48	29 – 61
P	(40)	----	----

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Pb	20	19 – 21	13 – 27
Si	(10)	----	----
Sn	(305)	----	----
Ti	9	7 – 11	0 – 20
V	7	6.5 – 7.5	4 – 10
Zn	16	14 – 18	3 – 29

Pb in Paint, L1

Catalogue No.: 140-025-200		CRM Lead in Paint Level 1	Lot No.: SC9261559	20 g
Element	Consensus Value (mg/kg)	Confidence Interval (mg/kg)	Tolerance Interval (mg/kg)	
Lead (Pb)	94.3	92.1 – 96.1	70.3 – 118.3	

Values in bracket are not certified. They are listed for information only.

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AgroMAT™

Ag-1

Catalogue No.: 140-025-101		AgroMAT™		Lot No.: AG-1		175 g	
Parameters	Method	Unit	Consensus Value	Confidence Interval	Tolerance Interval		
Phosphorus	Bray 1	ppm	34	27 – 41	0 – 70		
	Mehlich III		52	49 – 55	34 – 70		
	Olsen		38	34 – 42	19 – 57		
Potassium	Ammonium Acetate	ppm	108	104 – 112	83 – 133		
	Mehlich III		121	113 – 129	76 – 166		
Calcium	Ammonium Acetate	ppm	2184	2075 – 2293	1508 – 2860		
	Mehlich III		2580	2488 – 2672	2091 – 3069		
Magnesium	Ammonium Acetate	ppm	249	237 – 261	173 – 325		

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	Mehlich III		298	286 – 310	236 – 360
Zinc	DTPA	ppm	0.9	0.8 – 1.0	0.3 – 1.5
	Mehlich III		2.1	2.0 – 2.2	1.8 – 2.4
Manganese	DTPA	ppm	14	12 – 16	3 – 25
	Mehlich III		140	132 – 148	97 – 183
Copper	DTPA	ppm	0.9	0.8 – 1.0	0.1 – 1.7
	Mehlich III		0.7	0.6 – 0.8	0 – 1.4
Iron	DTPA	ppm	57	48 – 66	7 – 107
	Mehlich III		546	511 – 581	364 – 728
Boron	Hot Water	ppm	0.4	0.3 – 0.5	0 – 1.1
	Mehlich III		0.7	0.5 – 0.9	0 – 1.9

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Sodium	Ammonium Acetate	ppm	25	19 – 31	3 – 47
	Mehlich III		(31)	----	----
Sulfur	Mehlich III	ppm	(11)	----	----
Aluminum	Mehlich III	ppm	(913)	----	----
pH	1 :1 Soil :Water	----	7.1	7.0 – 7.2	6.5 – 7.7
	1 :2 Soil :Water		7.1	6.9 – 7.3	6.4 – 7.8
	Saturated Paste		(7.1)	----	----
	Buffer SMP		7.2	7.1 – 7.3	6.6 – 7.8
Organic Matter	LOI	%	2.7	2.4 – 3.0	0.9 – 4.5
	Walkley Black		2.3	2.1 – 2.5	1.5 – 3.1
Nitrogen as Nitrate	Cadmium Reduction	ppm	14	13 – 15	9 – 19

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Soluble Salts	1 :1 Soil :Water	uS/cm	(256)	----	----
	1 :2 Soil :Water		171	151 – 191	74 – 268
	Saturated Paste		(562)	----	----

Ag-2

Catalogue No.: 140-025-102		AgroMAT™		Lot No.: AG-2		175 g	
Parameters	Method	Unit	Consensus Value	Confidence Interval	Tolerance Interval		
Phosphorus	Bray 1	ppm	22	17 – 27	0 – 51		
	Mehlich III		21	19 – 23	11 – 31		
	Olsen		15	12 – 18	2 – 28		
Potassium	Ammonium Acetate	ppm	79	71 – 87	31 – 127		
	Mehlich III		88	82 – 94	58 – 118		

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Calcium	Ammonium Acetate	ppm	371	345 – 397	217 – 525
	Mehlich III		468	433 – 503	279 – 657
Magnesium	Ammonium Acetate	ppm	27	20 – 34	0 – 68
	Mehlich III		39	34 – 44	14 – 64
Zinc	DTPA	ppm	1.6	1.5 – 1.7	0.8 – 2.4
	Mehlich III		3.8	3.6 – 4.0	2.7 – 4.9
Manganese	DTPA	ppm	33	27 – 39	2 – 64
	Mehlich III		214	199 – 229	136 – 292
Copper	DTPA	ppm	0.8	0.7 – 0.9	0.1 – 1.5
	Mehlich III		1.1	1.0 – 1.2	0.6 – 1.6
Iron	DTPA	ppm	96	74 – 118	0 – 217
	Mehlich III		481	456 – 506	352 – 610

Matrix Reference Materials - SCP SCIENCE

Boron	Hot Water	ppm	0.3	0.2 – 0.4	0 – 1.0
	Mehlich III		0.4	0.2 – 0.6	0 – 1.4
Sodium	Ammonium Acetate	ppm	20	16 – 24	2 – 38
	Mehlich III		(25)	----	----
Sulfur	Mehlich III	ppm	(25)	----	----
Aluminum	Mehlich III	ppm	(1370)	----	----
pH	1 :1 Soil :Water	----	5.7	5.6 – 5.8	5.1 – 6.3
	1 :2 Soil :Water		5.7	5.5 – 5.9	4.5 – 6.9
	Saturated Paste		(5.8)	----	----
	Buffer SMP		6.4	6.3 – 6.5	5.9 – 6.9
Organic Matter	LOI	%	3.2	2.9 – 3.5	1.5 – 4.9
	Walkley Black		2.5	2.3 – 2.7	1.6 – 3.4

Matrix Reference Materials - SCP SCIENCE

Nitrogen as Nitrate	Cadmium Reduction	ppm	5	4 – 6	0 – 11
Soluble Salts	1 :1 Soil :Water	uS/cm	(78)	----	----
	1 :2 Soil :Water		72	58 – 86	0 – 145
	Saturated Paste		(228)	----	----

COMPOST

Catalogue No.: 140-025-111		AgroMAT™ Compost		Lot No.: CP-1	100 g
Parameters	Unit	Consensus Value	Confidence Interval	Tolerance Interval	
pH	----	6.86	6.79 – 6.93	6.44 – 7.28	
Organic Matter	%	46	42 – 51	22 – 70	
NO3-N	mg/kg	1054	970 – 1138	655 – 1453	

Matrix Reference Materials - SCP SCIENCE

N-Total	%	(0.84)	----	----
H2O	%	3.5	3.3 – 3.8	2.3 – 4.8
C/N Ratio	----	(33.3)	----	----
Al-Total	mg/kg	7347	6941 – 7754	4827 – 9867
As-Total	mg/kg	5.8	5.5 – 6.1	3.7 – 7.9
Ca-Total	mg/kg	45 092	43 663 – 46521	35 615 – 54 569
Cd-Total	mg/kg	1.16	1.10 – 1.23	0.73 – 1.60
Co-Total	mg/kg	5.15	4.89 – 5.40	3.53 – 6.76
Cr-Total	mg/kg	34.7	33.5 – 36.0	26.3 – 43.1
Cu-Total	mg/kg	245	235 – 255	176 – 313

Matrix Reference Materials - SCP SCIENCE

Fe-Total	mg/kg	16 939	16 385 – 17 494	13 162 – 20 716
Hg-Total	mg/kg	0.62	0.59 – 0.65	0.41 – 0.83
K-Total	mg/kg	1278	1199 – 1356	759 – 1797
Mg-Total	mg/kg	4496	4304 – 4688	3223 – 5770
Mn-Total	mg/kg	629	606 – 653	468 – 791
Mo-Total	mg/kg	1.99	1.78 – 2.21	0.68 – 3.31
Na-Total	mg/kg	(408)	-----	-----
Ni-Total	mg/kg	29.5	28.2 – 30.8	20.7 – 38.2
P-Total	mg/kg	6471	6141 – 6800	4318 – 8623
Pb-Total	mg/kg	30.2	28.6 – 31.8	20.2 – 40.2

Matrix Reference Materials - SCP SCIENCE

S-Total	mg/kg	2440	2299 – 2580	1565 – 3314
Se-Total	mg/kg	0.68	0.59 – 0.77	0.19 – 1.17
Zn-Total	mg/kg	224	216 – 232	168 – 280

Values in bracket are not certified. They are listed for information only.