





numb	per of p	artici	pants	
Country	2004	2005	2006	2007
Angola	1	1	1	0
Botswana	2	2	2	4
Ethiopia	1	1	1	0
Kenya	2	2	4	3
Lesotho	1	1	0	1
Madagascar	0	0	2	2
Malawi	2	2	2	3
Mauritius	1	3	4	3
Mozambique	2	3	2	0

Changes and Progress in the number of participants

Country	2004	2005	2006	2007
Namibia	2	2	3	3
Republic of Seychelles	1	2	2	1
Swaziland	1	1	0	1
Tanzania	2	8	5	12
Uganda	1	3	6	5
Zambia	1	4	2	3
Zimbabwe	2	3	3	5
Number of labs participating	22	44	39	46

Changes and Progress Parameters							
2004		2005		2006		2007	
Anions	Cations	Anions	Cations	Anions	Cations	Anions	Cations
SO4	Са	SO4	Ca	SO4	Са	SO4	Са
CI	Mg	CI	Mg	CI	Mg	CI	Mg
F	Na	F	Na	F	Na	F	Na
NO3	К	NO3	К	NO3	К	NO3	К
	Fe	PO4	Fe	PO4	Fe	PO4	Fe
	Mn		Mn		Mn		Mn
	AI		AI		AI		AI
			Pb		Pb		Pb
			Cu		Cu		Cu
			Zn		Zn		Zn
			Cr		Cr		Cr
			Ni		Ni		Ni
		1			As		As
					Cd		Cd
Total	11		17		19	N	AMANAT







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Weighings of wires

- Start of by weighing the different target masses for the 3 levels of each parameter
- Continue with the weighings of the metals where different wires were used



Calculated Sample mass - cations

Parameter	Chemical	Purity %	Level 1	Level 2	Level 3
Calcium	CaCl2.2H2O	99.5	7.2911	13.7358	23.0648
Magnesium	Mg(NO3)2.6 H2O	99.5	27.006	41.4963	72.8506
Sodium	NaCl	99.6	8.0412	12.6016	18.5693
Potassium	KCI	99.6	2.2736	2.9922	4.4514
Iron	Fe-Wire	99.95	0.1100	0.2034	0.3156
Manganese	Mn-Powder	99.4	0.1061	0.1328	0.2637
Aluminium	Al-wire	99.9995	0.1134	0.1560	0.3222
Lead	Pb(NO3)2	99.7	0.1409	0.1905	0.3811
Copper	Cu-wire	99.999	0.1188	0.2380	0.3947
Zinc	Zn-wire	99.99995	0.138	0.2694	0.5663
Chromium	CrCl3.6 H2O	99	0.2688	0.5554	0.9795
Nickel	Ni-wire	99.9975	0.3649	0.2428	0.3244
Arsenic	As2O3	99.50	0.1853	0.3834	0.1256
Cadmium	CdCl2	99.995	1.1845	0.4688	0.1728
preservation	and 6 were constitu to a pH 2.1. The s ght for the cation sa	samples ma	trix was pu	ire water.	NAMMA









Calculated Sample mass - Anions

Parameter	Chemical	Purity %	Level 1	Level 2	Level 3
Sulphate	K2SO4	99.5	7.0676	10.3072	13.6371
Chloride	KCI	99.6	11.0492	13.5912	17.365
Fluoride	KF	100	0.2000	0.3404	0.5938
Nitrate	KNO3	99.3	3.1201	7.2868	12.3361
Phosphate	KH2PO4	99.9	1.5061	2.9053	3.6030

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Sample 1, 2 and 3 were constituted as follows without acid preservation. The sample matrix was pure water. The final weight for the cation samples was 57.08g with the Density (Deionised water) = 0.998 g/ml and the temperature 24 °C.







Preparation of final batches

- Obtain a suitable balance
- Find a suitable container
- Made special rack for the stirrer in order to mix the samples properly





Preparation of the 200g weighings

- Weigh the empty container
- Weigh the calculated amount of the different stock solutions with the density taken into consideration
- Add some water into the big container
- Add the calculated amount of the stock solution (by weight)
- Rinse over in the 100 I container
- Fill by weight



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pH adjustment

- Stirring took place for continuously during the process
- Filled by weight
- Final stirring for 15 minutes
- Document the pH













Preparation of the documentation

- Hard copies of the forms for the results and the method information were included in each box
- Labels of all the participants were prepared





Packaging of the samples

- Packed six polyethylene bottles into each box
- Shredded paper was used for the packaging material
- sealed with packaging tape



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