

Supplement of Solid Earth, 6, 415–424, 2015  
<http://www.solid-earth.net/6/415/2015/>  
doi:10.5194/se-6-415-2015-supplement  
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*Supplement of*

**Elemental quantification, chemistry, and source apportionment in golf course facilities in a semi-arid urban landscape using a portable X-ray fluorescence spectrometer**

**T. K. Udeigwe et al.**

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<b>For Figure 3A</b>				
<b>Factor Pattern</b>				
	<b>Factor1</b>	<b>Factor2</b>		
<b>Cr</b>	0.91006	-0.2635		
<b>Mn</b>	0.95559	-0.05859		
<b>Fe</b>	0.94323	-0.25207		
<b>Ni</b>	0.76549	-0.4604		
<b>Cu</b>	0.85142	0.43411		
<b>Zn</b>	0.64576	0.65347		
<b>As</b>	0.86808	-0.34969		
<b>Pb</b>	0.5646	0.70481		
Variance explained by each factor				
	<b>Factor1</b>	<b>Factor2</b>		
	5.4312889	1.5828846		
Eigenvalues of the Correlation Matrix: Total				
= 8 Average = 1				
	Eigenvalue	Difference	Proportion	Cumulative
1	5.43128893	3.84840428	0.6789	0.6789
2	1.58288465	1.22204825	0.1979	0.8768
3	0.36083639	0.10867111	0.0451	0.9219
4	0.25216528	0.07173803	0.0315	0.9534
5	0.18042725	0.05545745	0.0226	0.976
6	0.1249698	0.06959003	0.0156	0.9916
7	0.05537977	0.04333183	0.0069	0.9985
8	0.01204793		0.0015	1
<b>Standardized Scoring Coefficients</b>				
	<b>Factor1</b>	<b>Factor2</b>		
<b>Cr</b>	0.23127	-0.048		
<b>Mn</b>	0.16762	0.06504		
<b>Fe</b>	0.23244	-0.03861		
<b>Ni</b>	0.27687	-0.16675		
<b>Cu</b>	-0.01838	0.31536		
<b>Zn</b>	-0.12576	0.41079		
<b>As</b>	0.25451	-0.09784		
<b>Pb</b>	-0.15599	0.42982		

<b>For Figure 3B</b>				
<b>Factor Pattern</b>				
	<b>Factor1</b>	<b>Factor2</b>		
<b>Cr</b>	0.93009	-0.21118		
<b>Mn</b>	0.91574	-0.04678		
<b>Fe</b>	0.94648	-0.21894		
<b>Ni</b>	0.78828	-0.43823		
<b>Cu</b>	0.86756	0.30527		
<b>Zn</b>	0.72617	0.61539		
<b>As</b>	0.87084	-0.26461		
<b>Pb</b>	0.74346	0.41783		
Variance explained by each factor				
	<b>Factor1</b>	<b>Factor2</b>		
	5.8119118	1.003259		
<b>Eigenvalues of the Correlation Matrix: Total</b>				
<b>= 8 Average = 1</b>				
	<b>Eigenvalue</b>	<b>Difference</b>	<b>Proportion</b>	<b>Cumulative</b>
<b>1</b>	5.81191178	4.8086522	0.7265	0.7265
<b>2</b>	1.00325959	0.55448443	0.1254	0.8519
<b>3</b>	0.44877515	0.15702995	0.0561	0.908
<b>4</b>	0.2917452	0.11279508	0.0365	0.9445
<b>5</b>	0.17895013	0.02752969	0.0224	0.9668
<b>6</b>	0.15142044	0.0811281	0.0189	0.9858
<b>7</b>	0.07029234	0.02664697	0.0088	0.9945
<b>8</b>	0.04364537		0.0055	1
<b>Standardized Scoring Coefficients</b>				
	<b>Factor1</b>	<b>Factor2</b>		
<b>Cr</b>	0.25594	-0.06643		
<b>Mn</b>	0.15265	0.06081		
<b>Fe</b>	0.26294	-0.07076		
<b>Ni</b>	0.37673	-0.25937		
<b>Cu</b>	-0.07088	0.33142		
<b>Zn</b>	-0.28118	0.55928		
<b>As</b>	0.28086	-0.11459		
<b>Pb</b>	-0.15705	0.40638		