



MODERNWATER

### **How We Quantify Samples Accurately**

As with all analytical methods there can be interferences. The matrix and presence of other metals or substances can change the potential at which a metal strips from the electrode. Certain metals have similar stripping potentials so a slight shift in stripping potential can cause peak overlap. (similar to using GC or HPLC).

Modern Water uses two independent methods to check the results for all samples – standard comparison, and standard addition.

In this way, most of the effects of interference are suppressed, giving a true valid result.

It is interesting to note that most routine AAS or ICP analyses do not use the standard additions method to compensate for matrix effects, even though different matrixes can significantly affect this type of analysis.