# Method 6 & 7 – Arsenic and Antimony

**Sample Weight: 0.5 g per method**

## Summary

Arsenic and Antimony are determined by hydride generation atomic absorption spectrometry (HGAAS). Samples are fused at 750°C with sodium peroxide and the fusion cake dissolved in a dilute nitric acid. The sample solution is reduced with a sodium borohydride solution to generate a volatile hydride for analysis by atomic absorption spectroscopy.

## Reporting Limits for Arsenic and Antimony:

|  |  |  |
| --- | --- | --- |
| Element | Concentration (low) | Concentration (high) |
| As, Arsenic | 0.5 ppm | 300 ppm |
| Sb, Antimony | 0.5 ppm | 300 ppm |

## Analytical Performance

Data will be deemed acceptable if recovery of Arsenic and Antimony is ±20% at five times the LOD and the calculated percent RSD of duplicate samples is no greater than 20%.