



Burnie RESEARCH LABORATORY

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Hydrometallurgy Consultants & Flotation Technology Specialists

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17th August 2010

Mr. Ray Hazeldene
C/- Stellar Resources

Dear Ray,

Re: BRL Analysis Methods.

Please find below a summary of analysis methods employed for the assay of Stellar Resources samples.

XRF Fused Bead Analysis (Sn, WO₃ & Fe)

The sample is mixed with a borate flux, pre-oxidised @ 700°C then fused @ 1200°C. The homogenous glass bead is presented to the Axios X-ray spectrometer for measurement against a calibration constructed from synthetic standards & verified using Certified Reference Materials.

AAS Analysis (Soluble Sn, Cu, Pb, Zn, Ag, Bi, Ni, As)

The sample is digested in a mixture of hydrochloric, nitric & perchloric acids; evaporated to dryness then re-dissolved in hydrochloric acid before being diluted to final volume. The unknown is then presented to the Varian AA-240 atomic absorption spectrophotometer for measurement against a calibration constructed from synthetic standards & verified using Certified Reference Materials.

Sulphur Analysis (S)

The sample is presented to the CS-2000 sulphur analyzer with the concentration being determined via infra-red detection of evolved sulphur trioxide. The calibration is constructed from Certified Reference Materials & verified using same.

Specific Gravity (SG)

The specific gravity of the sample is determined using an air pycnometer. Calibration is via a "calibration ball" of known SG value.

Yours Sincerely,

Ricky Gelston
Chief Chemist
Burnie Research Laboratory