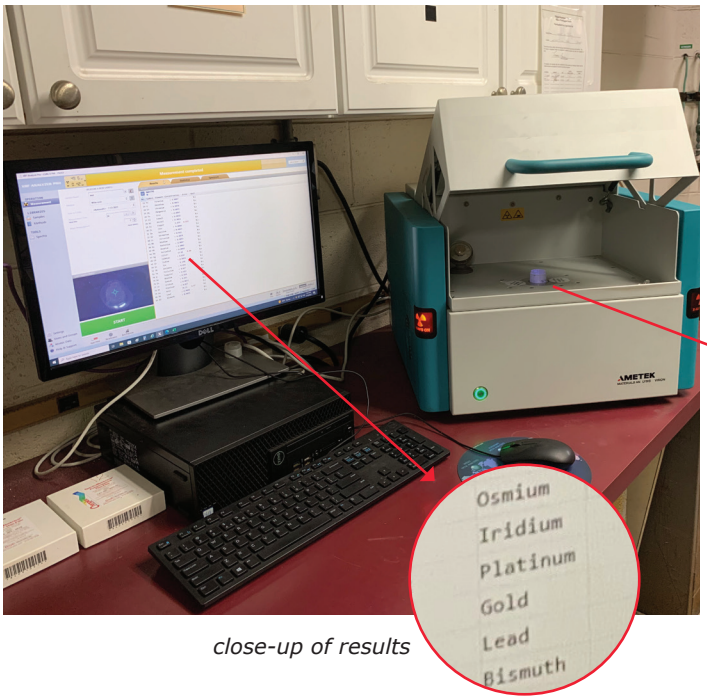
Our Analytical Services include XRF and Fire Assay

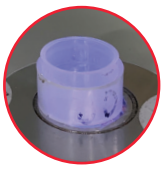
It is our goal to recover the highest possible amount of gold, silver, platinum and palladium from your scrap material. Our leading-edge laboratory offers two analytical techniques, XRF and Fire Assay, both of which are capable of detecting even the smallest amounts of precious metals. The analytical technique used will depend on your budget, timeframe, the elements to be determined and the level of accuracy required. **Please Note: This page describes stand-alone assay charges. Lot specific assay charges are stated on our Refining Terms.**



close-up of results

XRF: X-Ray Fluorescence Spectroscopy is a non-destructive technique capable of determining the concentration of multiple elements in a sample. It is particularly useful in providing qualitative results, defining the elements present in the sample with a less accurate determination of their concentration. This technique provides the most accurate results from smooth, flat, homogeneous samples.

Accuracy: GOOD ± 0.1% for gold & ± 0.5% for all other metals. Results are dependent on sample quality and homogeneity.



sample is placed in the spectrometer

Cost: $75 per sample

Turnaround: One working day from receipt of sample

FIRE ASSAY: Over 4,000 years old, fire assay is still the most accurate method for determining gold content.

This ancient technique is still used today and requires a small amount of your sample to undergo a thermal and chemical process. Samples must be homogeneous.

BEST FOR High and Low AU, PT and PD

Accuracy: BETTER ±0.01% or better

Cost: $150 per sample

Turnaround: Two working days from receipt of sample

After your bullion has been weighed, pin samples are taken from each end and fire assayed in duplicate to determine the precious metal content. The results of the assays must agree. If they do not, the bar is remelted to ensure that it is homogeneous and then resampled and reassayed.

THE FOLLOWING REFINING RELATED FORMS ARE AVAILABLE ON OUR WEBSITE:

- Refining Chain of Custody Form
- Lab-Grown Screening and CZ Frosting Form
- Stone Setting Submission Form

Scan this QR code to access the refining-related forms on our website.