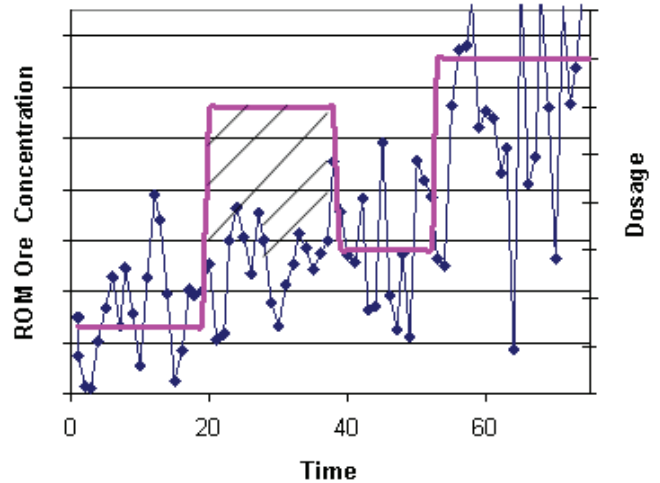




**United Science Services** offers a full service process audit service for evaluating the effectiveness of your flow sheet and evaluating the collector demand from your ore body in real time. The process involves selecting sampling points, deploying a variety of data logging on-line sensors that will assess recovery efficiency cell-by-cell over time. The output of the process along with metallurgical data will enable the identification of instances in which collector rich or collector starved conditions were present in each cell. This enables a cell-by-cell understanding of recovery and efficiency.



Service Options	
<b>Sensor Array</b>	UV, pH, ORP, Xanthate, DTP, ESR, Ion Chromatography, DO, amine, Other
<b>Sampling Points</b>	2 per bank or as specified
<b>Time</b>	1 week, three months
<b>Correlation</b>	We can provide a collector ore demand correlation.
<b>On-Line</b>	Handheld, bench top, or process amenable
<b>Lab Evaluation</b>	Pick samples, chemical evaluation.

### You don't Know If You Cant Measure It!

It is estimated that a typical plant overdoses collector chemicals up to 30% although the real number is never known. Although this prevents the loss of ore, it causes lost profit due to wasted chemical and increased environmental footprint for your operation.

### Output of Process

Working with your metallurgists, the output of the process will quantify the following items:

- Cost of chemical waste
- Bank to bank efficiency
- Rougher to cleaner efficiency
- Identification ore loss locations

# Call Today for an Estimate!

United Science

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