



Kiaka Gold Project – Bathymetric Survey

SRK Consulting contracted PMI to perform a bathymetric survey near the Kiaka Gold Mine and provide velocity profiles of the river. The purpose for the survey was to provide information for a hydro-geological study to plan riverbank protection and locating optimal water intake locations.

PMI subsequently mobilised and executed the contract, gathering the required subsurface data at the selected locations.

The Scope of Work included

A total of 15 river cross sections were surveyed using a single beam echo sounder. On 5 of these sections PMI also measured the river flow on 10 equally interspaced locations with a current flow meter.

The cross sections varied in length between 115m and 3239m. The shallow part next to the riverbank was manually surveyed with a RTK GPS rover unit. The maximum depth of the river gradually increased from 4.7m to 28.5m.

PMI Resources on Site

- Survey vessel *PMI X'press*
- GPS (Trimble 5700 RTK GPS system was used for navigation and positioning), computer and echo sounder (Reson Navisound 210 Echo sounder with a sounding frequency of 210 KHz was used) were set up inside the cabin of the survey vessel
- The transducer was fitted to the "over the side" mounted bracket and submerged 0.5m (or 0.3m depending on underwater obstacles) below the water surface
- The GPS Rover unit and radio receiver were mounted on the vessel's roof.



Conclusion

The contract was executed to the required standards requested by the Client.

