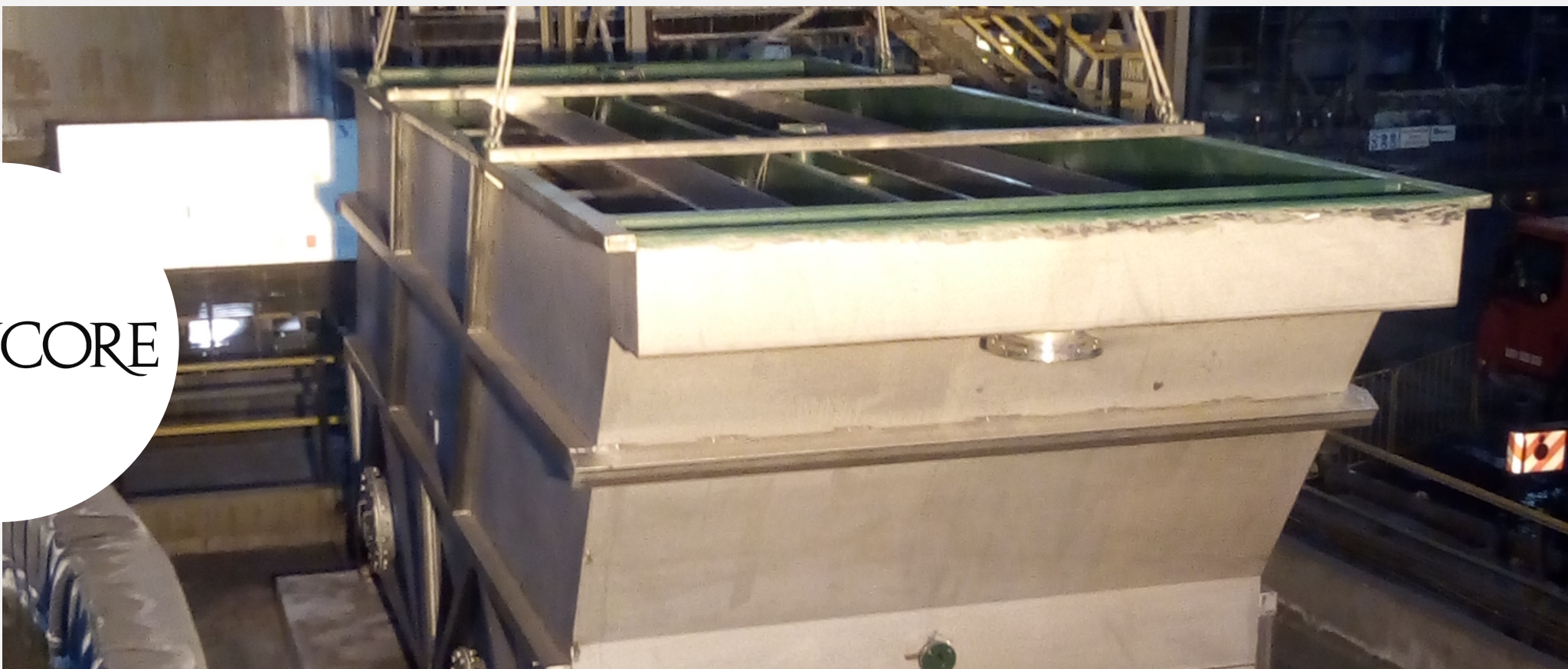




Inclined plate settler for enhanced mineral and solids recovery

GLENCORE



Problem Statement

Due to increasing demand for resources, the footprint and efficiency of conventional type settlers make them undesirable. Our clients required a higher efficiency solids separation solution which can withstand the abrasive and corrosive nature of aggressive mine streams, whilst offering a modular layout and future-proof capacity.

Solution

Watericon offers a cost-effective and robust solution. The inclined plate settler drastically reduced the surface area required while increasing settling efficiency. Our solution included cutting edge suspended solids measurement and an integrated control system which prevents high SS solution from leaving the process. This innovation means less mineral solids will be lost in the overflow during periods of hydraulic overload or ineffective precipitation solids.



Innovation

Automated outlet quality control which mitigates the need for operator input and manual monitoring.



Process

Corrosion resistant inclined plate settler solids measurement. Automatic process adjustments according to outlet quality.



Result

The end-result was an effective and simple solution which allowed for modular expansion. An effluent stream with little to no solids can be generated while all solids can be recovered from the bottom of the settler for processing or disposal.