



WATERCARE MINING

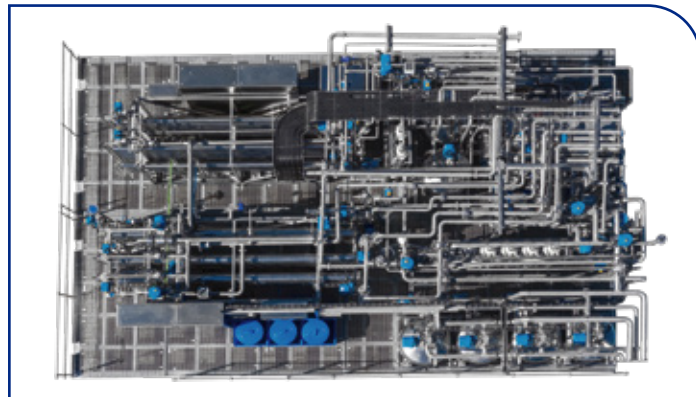
Process Technologies

# METALS UPGRADE PLANT

## Revenue from waste - salvaging high-value product traces from waste streams

The metallurgical processing of various metals creates waste streams that contain low concentrations of the high-value product. When these streams are discarded to waste facilities, the end user is subject to a potential revenue loss.

Watercare Mining has applied its knowledge of design, construction and operation of membrane-based plants to develop a system which improves the treatment of high-value waste streams.



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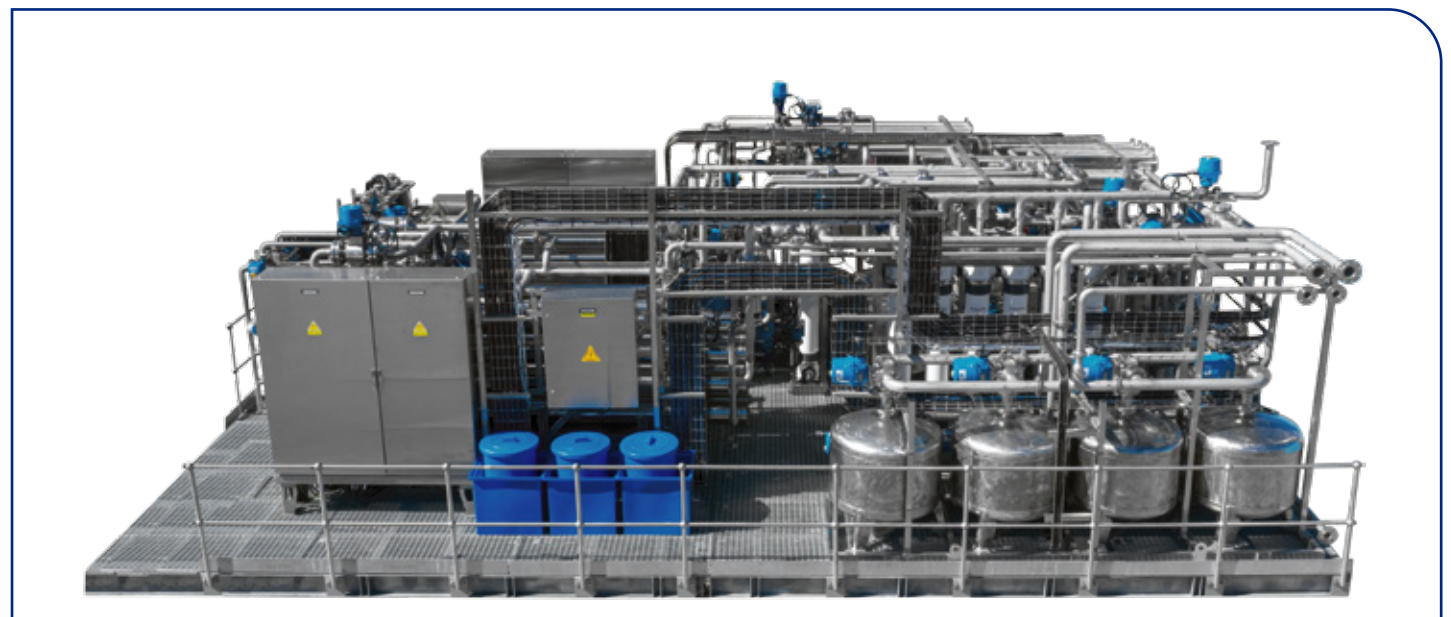
The sequence of the plant functioning follows a primary and secondary filtration step, followed by the membrane unit operation. The waste stream is upgraded to a relative concentration, where it can be combined with the primary process stream without causing dilution. The permeate from the membrane is further treated to produce ultrapure water, which can be used for various processes.

### Applications:

- Base metals
- Precious metals

### A wide range of benefits, include:

- Additional value recovery
- Fully automated process
- Cleaner waste streams
- Compact, modular units for ease of operation
- Excellent return on investment



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