Mt. Lyell Acid Mine Drainage Remediation Solution

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aquenox

SCROLL

The Origin

Legacy waste rock dumps and tailings at Mt Lyell.

When rainfall meets these rocks, acid drainage is created !

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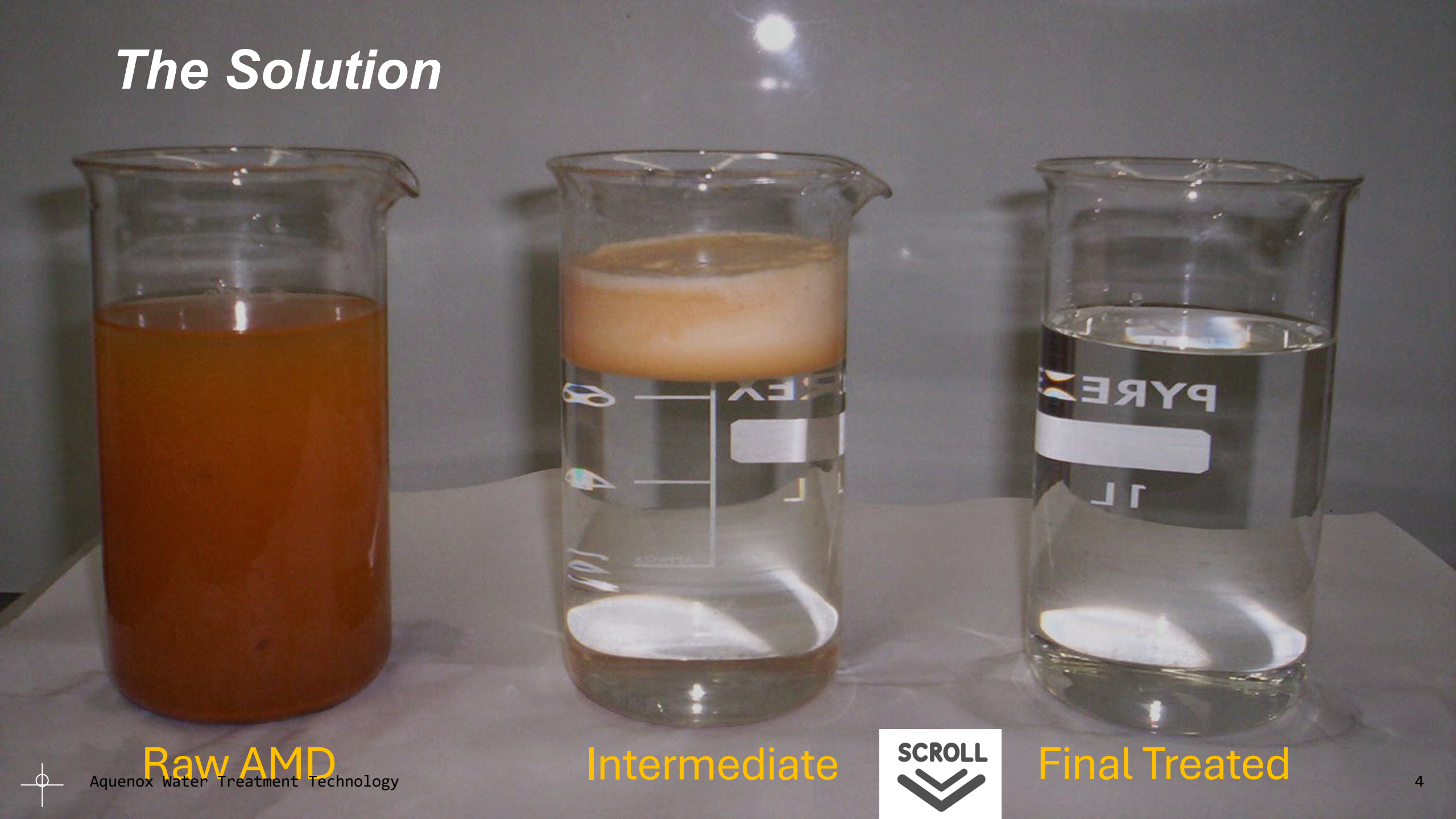
The Problem

For more than a century, copper and gold have been mined in the Mt Lyell area of Tasmania.

Acid and metalliferous drainage (AMD) occurs when sulfide-bearing rocks are exposed to oxygen (the air) and water. The last century of mining at Mt Lyell exposed massive areas of broken sulphide-rich rock to the air and to high levels of rainfall, forming sulphuric acid that leaches out the other metals in the rock, including copper, iron, manganese and zinc. These reactions are very difficult to stop and will continue until either the oxygen, water or sulphides are exhausted.

AMD due to the historic mining practices continues to discharge into the Queen and King river system from tunnels and waste rock dumps on the mine site.

The Solution



Raw AMD

Intermediate

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Final Treated

The Benefits

The Aquenox™ Process can efficiently treat AMD and reduce the copper level down to <0.5 mg/L for permissible discharge

The Other Benefits of the Aquenox™ Process are:

- Low capital investment
- Low operating costs
- Produces “fit for discharge” water
- Simple operation and low maintenance
- Potential high value in by-products (such as copper, zinc, gold)
- Ideal for mining tailings wastewater reclamation, mainly focused on recovering copper.