



pH7TECHNOLOGIES.COM

INCREASING RECOVERIES FOR HEAP OPERATORS

Unlocking Trapped Sulfide Ores through
Economical and Sustainable Technology.





COMPANY OVERVIEW

pH7 Technologies is at the forefront of economical and sustainable metal extraction, pioneering an innovative approach to the metallurgical extraction of critical and precious metals.

Based in Vancouver, British Columbia, pH7 commissioned its first commercial end-of-life spent catalysts processing operation, producing 40,000 Troy Ounces of Platinum, Palladium and Rhodium annually. pH7 is expanding its proprietary organo-electrochemical process into copper and gold mining, increasing recoveries, liberating previously trapped ores while reducing environmental impacts.

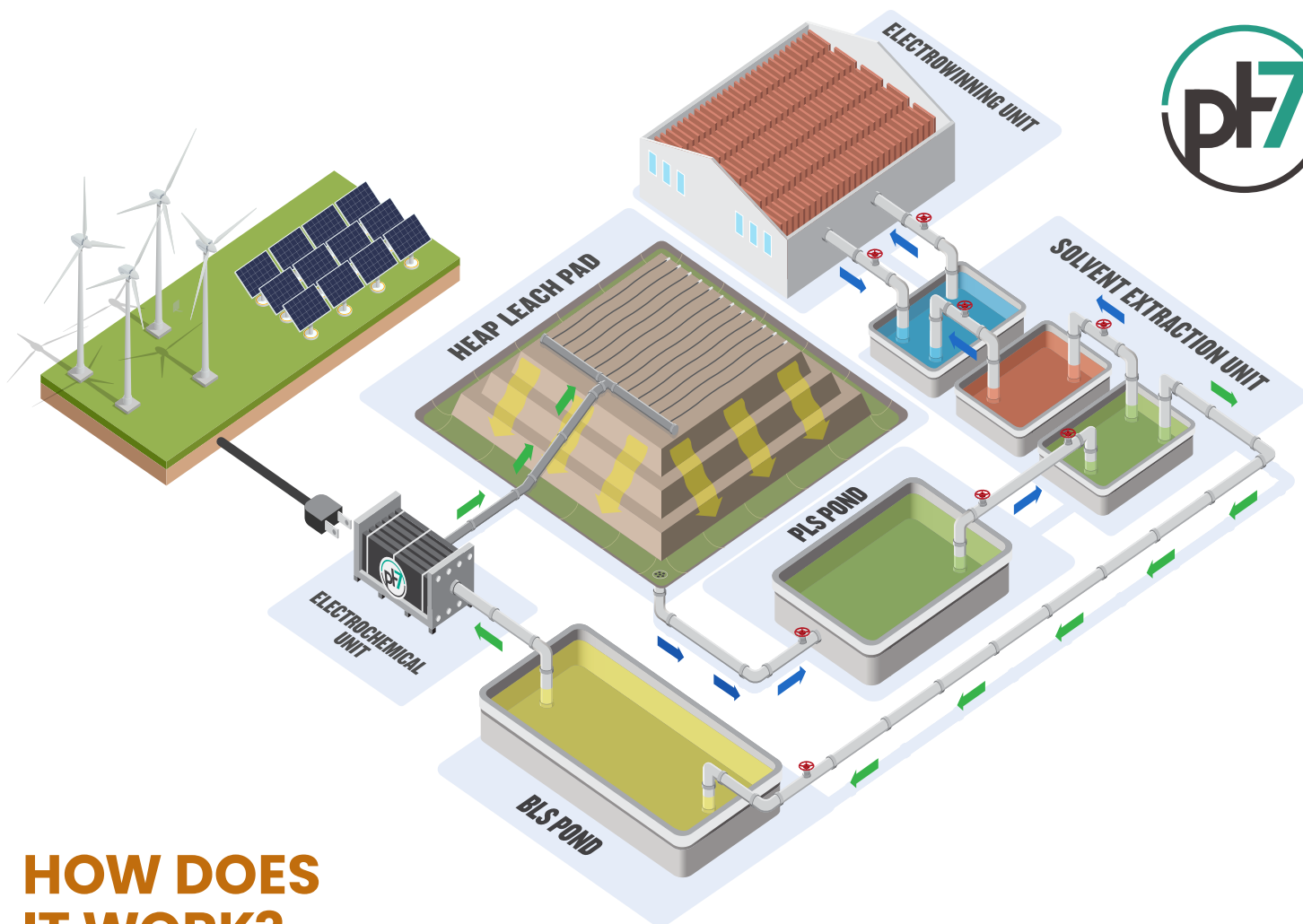
- **Diversified Metal Portfolio**
- **Commercialized Technology**
- **Revenue Generating**

**DOES YOUR
OPERATION SUFFER
FROM LOW HEAP
RECOVERIES?
WE CAN HELP.**

We can maximize your heap recoveries without any significant changes to your flowsheet. pH7 enables heap operators to maximize their recoveries, revenue and mine life cycle by utilizing a modular organo-electrochemical technology into their heap operation.

The pH7 process enables current and future mining operators to replace complicated and expensive mills and concentrators with pH7's heap leach approach to extract metals from oxide, transition and sulfide ores, unlocking all the advantages of heap leach operations without the constraints.





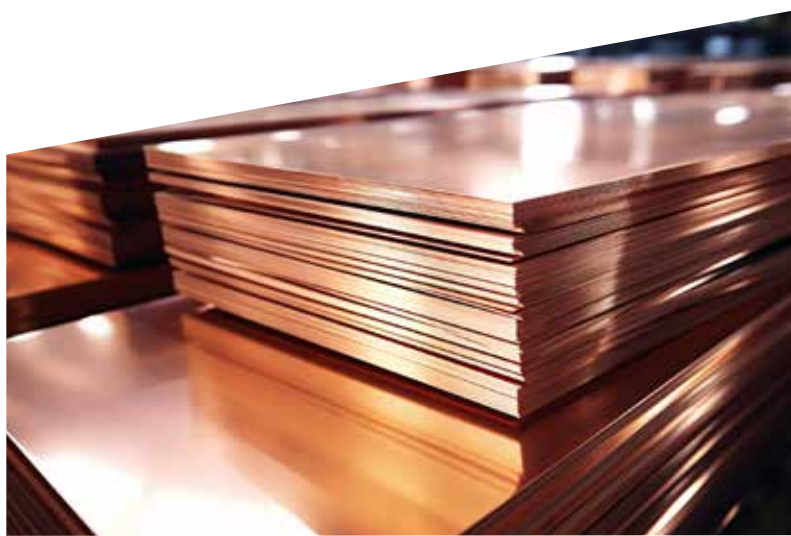
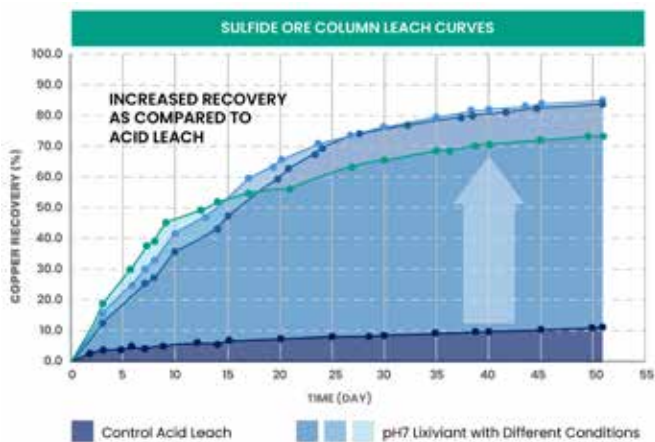
HOW DOES IT WORK?

pH7's organo-electrochemical process improves recoveries for heap leaching of oxide, transition and sulfide ores.

A proprietary electrochemical module is added into the heap leach process without any significant changes in the flow sheet. This unit produces an in-situ oxidizer strong enough to break the metal-sulphur bonds to eliminate the passivation layer in order to oxidize the target metal. The lixiviant's organic ligands bond with oxidized metal, carrying it to the solvent extraction or ion exchange unit,

followed by electrowinning to extract the metal. The barren solution then passes through the electrochemical unit again, regenerating the oxidant prior to irrigating the heap.

This process allows operators to cost-effectively extract copper and gold from oxide, transition, and sulfide ores through heap leaching, producing copper cathode or gold doré on-site while eliminating the need for mills, concentrators, concentrate shipments and smelters.



pH7 PARTNERS

pH7 Technologies is proud to partner with organizations working together towards a transition to clean energy. Together, we are helping build a more sustainable world for future generations.



pH7 AWARDS

Prestigious organizations have recognized and awarded pH7 for its groundbreaking technology and pioneering work in developing sustainable solutions for extracting critical metals.



SCAN THE QR CODE
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pH7 Technologies Inc.
311-1930 Pandora Street,
Vancouver, BC, V5L 0C7

pH7TECHNOLOGIES.COM