CONTAINED REMOVAL OF TOXINS

MECHANICAL DESINTEGRATION & CLASSIFICATION

LOW & HIGH G GRAVITY CONCENTRATION

CLEAN, HIGH VALUE FINE Cu AND PRECIOUS METALS CONCENTRATES

REJECTS DEWATERING

NON-HAZARDOUS CHAR RESIDUE

E-SCRAP SHREDDED PCB FEEDSTOCK CONTAINING HALOGENATED TOXINS

THERMAL CONDITIONING & GAS TREATMENT

CLEAN, HIGH VALUE COARSE Cu CONCENTRATE
PROCESS DESCRIPTION

Urban Metals PCB

The high value of precious metals in printed circuit boards (PCB) is constituting a valuable resource and at the same time a challenge from a process view. The new approach reaches unmatched liberation of precious metals and copper from the complex circuit boards to allow for optimum recoveries. Toxins contained in PCB’s are safely removed and will not negatively affect the sales value of the metal concentrates.

Crushed PCB’s are fed to a thermal treatment system where PCB’s become fracturable and toxins are removed safely. Thereafter, the PCBs are mechanically disintegrated in a mill and coarse copper is removed from the mill discharge as a clean product. The remaining fine slurry is then processed by Sepro’s low-G and high-G gravity concentration stages to recover fine copper and precious metals. The gravity concentration rejects are dewatered and disposed of as non-hazardous residue.