



ROCK KLEEN ZERO WASTE

- Rock Kleen is a revolutionary, disruptive technology that recovers residual precious metals, base and ferrous metals, nutrient materials, and industrial minerals from what are considered spent mine ‘tailings’. Tailings are the left-over materials after separating silver and gold, or copper, from the mined product. Tailings may contain residual contaminants, which can potentially damage the environment; silver/gold tailings are contaminated with residual cyanide, while copper tailings are contaminated with residual sulfuric acid. Some tailings are piled onto large pads, where they just sit, while some are stored and managed in over 3,500 tailings dams around the world. Either way you store them, tailings have long been a global problem, that is, until now.
- Rock Kleen is a new addition to the Itronics Cleantech Materials Portfolio and was developed to turn tailings into valuable assets, instead of long-term liabilities; that is, the ability to make a profit while simultaneously cleaning the environment. When Rock Kleen is implemented it utilizes the whole resource, so nothing is wasted; in many cases 100 percent beneficial use is realized. Rock Kleen goes even further and neutralizes 100 percent of any residual cyanide, or sulfuric acid, used in original mining, thereby rendering tailings clean, just as nature intended.
- Rock Kleen recovers residual gold, silver, and copper, as well as lead, nitrogen, sulphur, zinc, iron, and two U.S. critical minerals, potassium (potash) and manganese. After recovery efforts are complete, the remaining clean rock can then be sized and sold as industrial minerals; in the end, nothing is left, all is recovered, profits are made, and the environment improves.
- Rock Kleen is also a Multiple Product Stream Recovery Technology; Rock Kleen’s product streams flow to 1) Itronics GOLD’n GRO fertilizer manufacturing (as seven constituent nutrient materials), 2) Itronics circuit board refining (silver, gold, and lead absorb precious metals and base metals during the refining process), and 3) industrial minerals (for sale).
- Rock Kleen processes tailings, plugs into existing projects, and can be used in new mining.

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ITRONICS METALLURGICAL, INC.

GOLD’n GRO Fertilizer, Silver Refining, Technology Development

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