



Hydrometallurgy



GRE has the capabilities to conduct various metallurgical testing programs including:

- Bottle Roll and Column Leach testing – Au, Cu, Zn
- SX/EW – Cu, Co, Ni
- Ion Exchange – Co, Zn
- Gravity Separation

Contact Us

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GRE has 60+ years of combined mineral processing experience and has recently established a laboratory in Colorado for mineral processing, geotechnical, and environmental investigations.



Our laboratory has been outfitted with the equipment necessary to conduct project investigations and assist our clients in the optimization or troubleshooting of their processes.

Services

Our mining consulting services includes:

- Project due diligence
- Metallurgical design, process flow sheet development and process audits
- Heap leach and tailings design and mine waste facility design
- Geology mapping and modeling
- Resource and reserve estimation
- Open pit and underground mine design, mine planning, and optimization
- Geochemical risk mitigation
- ARD auditing, water management, and groundwater modeling

Our Laboratory consulting services includes:

- Sample Preparation/Comminution
- Hydrometallurgical Processes
- Bioleaching & other biological processes
- Pilot Plant Construction/Operation
- R&D for various metals extraction
- Environmental
- Geotechnical

Laboratory R&D

GRE has been involved with various clients for the development of unique processes for metals recovery.

These processes include extraction of lithium, cobalt, REE's, recycling of E-waste and LFP/NMC batteries, and biooxidation.



GRE is equipped with the necessary equipment to fulfill your needs.

Pilot Plant Capabilities



GRE has experience designing, constructing, and operating a wide variety of pilot plant units. These include:

- Continuous bioreactors for ferrous and/or sulfur oxidation circuits
- Bioleaching circuits - Sulfides
- Ion exchange circuits
- Solvent Extraction/Electrowinning circuits
- AMD Treatment