FILTRA-SYSTEMS PROJECT CASE STUDY

# Cooper Concentrate Dewatering

INDUSTRIAL FILTRATION | DEWATERING EQUIPMENT | COPPER TREATMENT

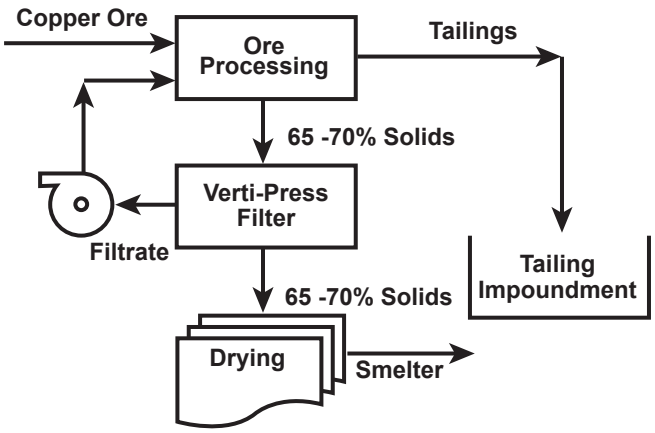
## Falconbridge Limited, Canada

**PRODUCT USED:**

**Verti-Press**
**Automatic Tower Filter Press**

| | |
|---|---|
| END USER: | Falconbridge Limited |
| LOCATION: | Canada |
| UNITS: | (1) VP-50-6, and (1) VP-50-5(7) |
| FLOW RATE: | 360 and 300 ton/Day Dry Product |
| PROCESS: | Filtering and Dewatering of Copper slurry |

### COPPER TREATMENT-PROCESS FLOW DIAGRAM




### MORE INFO

The Falconbridge Limited Company has mined and refined copper in this region since the 1970s.

The Verti-Press filter is used at the end of the concentrator cycle to filter and dewater the copper slurry prior to the drying cycle and the smelting process.

Prior to the Verti-Press Filter technology, Falconbridge used rotary vacuum drum and thermal dryers to filter, dewater and dry the copper concentrate slurry. However extensive engineering studies concluded and justified the Verti-Press Filter technology in this application, leading to significant process improvements.

The main reasons for utilizing the Verti-Press filter for copper treatment in the mining industry are significant energy cost savings due to much drier cakes (90%+ Vs 80%) and elimination/reduction of the drying equipment.

Other advantages of this dewatering equipment such as single point discharge and chamber isolation provided considerable savings in both equipment and operating costs, the trend that became a standard in the North and South American mining industry.

**Call and schedule your free industrial filtration consultation now, 248-427-9090.**