

Mining Flotation Circuit Polishing

INDUSTRIAL FILTRATION | MOLYBDENUM FILTER | MOLYBDENUM REMOVAL

Compania Minera Dona Ines de Collahuasi

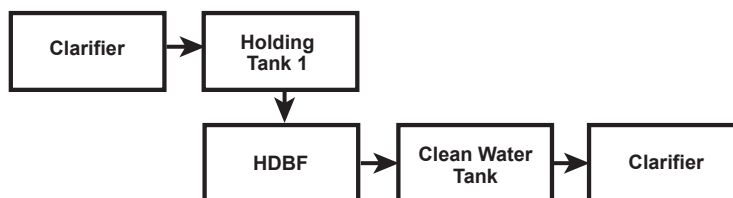
PRODUCT USED:

**Deep Bed
Walnut Shell Media Filter**



END USER:	Compania Minera Dona Ines de Collahuasi
LOCATION:	Iquique, Chile
UNITS:	(1) FDB-50P Deep Bed Filter
RATE:	620 gpm (21,000 bpd) (140 m3/hr)
PROCESS:	Fine solids removal from Moly Circuit Clarifier

MOLYBDENUM REMOVAL-PROCESS FLOW DIAGRAM



MORE INFO

Compania Minera Dona Ines de Collahuasi is one of the largest mine sites in Chile, producing copper from the mine site at 4,500 m above sea level in Northern Chile. The Molybdenum is a by-product of the copper production.

The Molybdenum filter was installed to process the clarifier overflow to remove any remaining solids prior to sending the water for use in the Molybdenum floatation circuit.

The water has to be free of solids larger than 5 micron to ensure proper floatation of the Molybdenum. Any residual solids will foul the floatation circuit and result in loss of Molybdenum production.

The Deep Bed Filter typically processes 100 ppm of suspended solids, and provides effluent less than 5 ppm. This super clean water circuit is critical for molybdenum

recovery, as marginal water will not provide the necessary solid separation in the clarifier.

Based on the data obtained during start up, due to exponentially increasing value of molybdenum, the plant will pay for itself in 3 months time.

The Deep Bed filter was selected in this Molybdenum treatment application, over other technologies, due to its ability to backwash (regenerate the media) cycle after cycle while other walnut shell filters or sand filters had failed.

So if you're looking clarify fluids and remove and recover solids more efficiently while increasing your profits, call us today, 248-427-9090.