

APT[®]sorb

When clean water matters

STACK SCRUBBER WATER TREATMENT

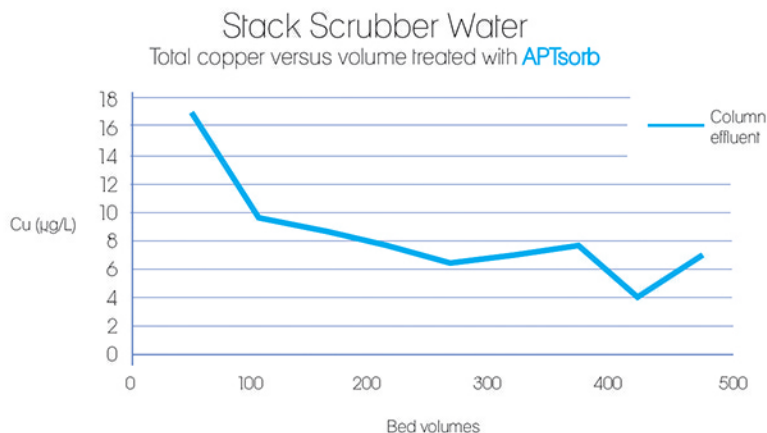
THE CHALLENGE

Copper in Stack Scrubber Water. Coal-fired power plants generally use wet scrubbing to minimize emissions from their exhaust streams. The water that results contains the particulate emissions, but it also contains other water-soluble elements and compounds that were present in the exhaust stream. As a result, the water from the scrubber requires treatment.

APT[®]sorb SOLUTION

American Peat Technology performed feasibility testing on stack scrubber water that had elevated levels of copper. The concentration of the scrubber water was 2200 µg/L copper. The bench test delivered 35 liters of stack scrubber water through a column containing 50 grams of APT[®]sorb water filtration media.

THE RESULTS



Treatment with APT[®]sorb over the course of 470 bed volumes reduced the copper concentration of the water by over 99 percent. After 470 bed volumes, the estimated loading was 1.5 mg copper per gram of media, with no apparent decline in performance. Continuing the test to breakthrough would have been ideal, but the test was limited by the amount of available water. The empty bed contact time was 20 minutes.

