Methyl Bromide Scrubber for Elimination of Soil Emissions

Value Recovery, Inc. has developed technology for scrubbing methyl bromide from ventilation gas streams. The work was performed using a laboratory model system consisting of a column, 1.3 long by 0.3 meter diameter, filled with soil to study methyl bromide de-sorption and subsequent scrubbing of methyl bromide. Previous studies, lab and field have not looked at the equilibrium distribution of methyl bromide in soil under tight conditions commensurate with the use of VIF films nor have they coupled the off gas to a scrubber that then minimizes and potentially eliminates methyl bromide emissions. Presented will be the equipment and experimental design along with de-sorption data coupled to an efficient scrubber for the elimination of methyl bromide emissions from soil fumigations along with a discussion of the implications for capital and operating costs.