

Annual Congress on
ENVIRONMENTAL POLLUTION AND SUSTAINABLE ENERGY
July 20-22, 2017 Melbourne, Australia

Risk management gray water treatment and reuse system: A case study of residential school of Meghraj taluka, Aravalli district, Gujarat, India

Manisha Desai

Bharaitya Vidya Bhavan's Sheth R.A. College of Science, India

Water scarcity has emerged as one of the most pressing problems in the 21st century. It is estimated that 2.7 billion people will face water scarcity by 2025. The reuse of gray water is an attractive addition to water management options. Risk management consisting of Quantitative Microbial Risk Assessment (QMRA) techniques were applied to four gray water treatment and reuse systems in Meghraj Taluka of Aravalli district, Gujarat. The paper presents the performance of gray water treatment plant based QMRA approach. Risk management is also presented to minimize the risks as the gray water treatment and reuse system installed in schools.

mnd909@yahoo.co.in