



### *Application Summary*

Barnard College in New York City, NY has experienced leaks in the RO water system supporting the Environmental Sciences laboratory. Leaks have been occurring at joints in the fused polypropylene RO piping system.



Picture 1: The historic, temporary solution. Picture 2: North Sea Resins Solution

The RO system is a gravity fed piping system that delivers RO water to laboratories on the third floor. Six leaks were found across the floor. All were at joints and all were in the ceiling.

Four of the six leaks were repaired without shutting off the water flow. Repairs done with the water pressure still on took additional time to repair.

Two of the six leaks were repaired after shutting off the water flow. Repairs done with the water shut off were done rapidly with single application of NSR150 resin. These two repairs were each done in 10 minutes.

The surface was wet in all cases. The application procedure was done per the North Sea Resins Technical Information Sheet for NSR150 resin.

The total time to identify and repair all 6 leaks was less than 3 hours. Materials cost for repairing **six** leaks to the fused polypropylene pipes was less than \$150. Prior to leaving the facility all repairs were tested and demonstrated to be “known-good” solutions.