Maximizing Recovery of Recycled Water for Groundwater Recharge Employing an Integrated Membrane System

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• WateReuse Foundation
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Project Objectives

Industry-wide:

- Provide critical data for acceptance of nanofiltration (NF) for recycled water treatment for groundwater recharge

Utilities Specific:

- Realize O&M and energy savings for utilities with the new design configuration
Methodology

- Integrated membrane systems (IMS) could be operated at higher recovery lower operating costs, while maintaining a product quality comparable to conventional RO membranes through innovative configuration of NF or low pressure reverse osmosis (LPRO) membranes.

- Nanofiltration (NF) treatment of primary Reverse Osmosis (RO) brine to increase water recovery.
Bench-Scale to Pilot Scale