Halifax Water J.D. Kline Water Supply Plant Filter Rehabilitation

CLIENT

Halifax Water

LOCATION

Halifax, Nova Scotia

PROJECT DESCRIPTION

Halifax Water is the municipal water, wastewater, and storm water utility serving the residents of the Halifax region. Halifax Water operates three large state-of-the-art ISO 14001 certified water supply plants and six modern smaller community supply plants to provide water to 360,000 customers throughout the Halifax Municipality. The utility employs 470 technicians.

The J.D. Kline Water Supply Plant provides water to mainland and peninsular Halifax. It was originally designed to meet a maximum demand of 227 million litres per day (MLD). At the time of the project it operated at 91 MLD, or only 43 percent capacity. The plant employed a direct filtration treatment process to remove pathogens, turbidity, metals, and organic matter from raw water from nearby Pockwock Lake.

Black & McDonald (B&M) was tasked with completing the rehabilitation of Filter 8. Canada's first regulated water utility, Halifax Water put its trust in B&M to provide the right mechanical expertise from its millwrights and pipefitters to ensure the job was done on time and on budget.

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B&M SCOPE OF WORK

The filtration rehabilitation project required a strict set of procedures to be followed for the demolition and removal of the existing equipment before new underdrains, air piping, and filter media could be installed. B&M's technicians conducted the testing, start up and commissioning activities. All of these changes were completed respecting the regulated quality assurance procedures for the water supply plant.

BENEFITS TO CLIENT

Supplying clean drinking water to the residents of Halifax and its surrounding communities is central to maintaining growth and quality of life in one of Canada's most livable communities. Halifax Water relied on B&M's capable professionals to improve this vital piece of infrastructure and position the community for future growth and the coming increase in demand for drinking water.