

**FULL SCALE EVALUATION OF THE STEP FEED BNR PROCESS AT
THE TALLMAN ISLAND WPCP**

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ABSTRACT

Step Feed BNR represents a process that can be incorporated into step feed activated sludge plants and upgrade them to achieve significant nitrogen removal. The wastewater being treated flows sequentially through anoxic and oxic zones designed to achieve sequential nitrification/denitrification. The process has been evaluated using the BioWin model, a modified version of the IAWQ Model No. 1, and demonstrated at full scale in a New York City treatment plant. The evaluation indicated that the process is a viable solution for upgrading several major plants in the New York City Metropolitan area.