

ZAMBARANO MEMORIAL (ELEANOR SLATER) HOSPITAL WWTP, BURRILLVILLE, RI

Client: Rhode Island Department of Mental Health, Retardation and Hospitals, Providence, RI

Project Manager:
Daniel J. Coughlin, P.E.



The Hospital Wastewater Treatment Plant (WWTP) was experiencing difficulties meeting its discharge permit due to poor effluent quality and high flows. Mr. Coughlin was Project Manager for the phased upgrade process at the facility. The first phase involved an extensive review of operational data as well as field and plan research relative to the tributary sewers. Due to various operations at the hospital (laundry, laboratory, pharmacy, facility and vehicle maintenance) the preliminary evaluations concentrated on defining the existing facilities and process influences. At the request of DMHRH, rehabilitation of the of the existing treatment plant was first evaluated to enable the 65,000 GPD WWTP to meet permit and to restore the effluent filter beds to full operation. Upon review of operational data and design criteria, it was determined that an upgrade and expansion of the existing facility was more appropriate than the replacement of the current secondary activated sludge WWTP.

The second phase involved the preliminary and final design of an expansion of the Hospital WWTP to 120,000 GPD, upgrading the primary and secondary settling tanks, aerators and sludge handling components and adding preliminary treatment, secondary effluent sand filtration, and ultraviolet (UV) disinfection. (The first application of this technology for a wastewater treatment plant within the State of Rhode Island.)

The third phase involved the development of a cost estimate, contract documents, coordination of the bidding process, review of shop drawings and periodic construction inspection.

The total value of proposed facilities was over \$1,300,000.



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