



**CWSRF Projects C1-5154-06-70 & 06-00**  
**Town of Brookhaven**  
**Sewer District #2**  
**Wastewater Treatment Plant**

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**Type of Financing:** Short-Term Interest-Free and American Recovery and Reinvestment Act (ARRA) Funds

**Estimated Amount to be Financed:** \$10,153,989

**EPA Approved Green Project Reserve:** \$170,515

**Estimated ARRA Principal Forgiveness:** \$5,162,252

**Estimated Principal of Long-Term Financing:** \$4,991,737

**Other Funding Sources:** None

**Prior CWSRF Recipient:** Yes ( ) No (X)

**Hardship Determination:** Yes ( ) No (X)

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**Project Description:**

The action consists of providing short-term financing for the costs associated with the planning, design, and construction of a new wastewater treatment plant and associated pumping station to serve Sewer District #2 in the Town of Brookhaven. The details for this project is contained within the Engineering Report dated August 2008 that will be approved by the Suffolk County Department of Health Services, and was made eligible by NYSEFC on September 25, 2008. The Green Project Reserve measures that were not included in the original design and are considered "add-ons" have been addressed in an amendment to the engineering report dated July 2009, which was approved by NYSEFC on December 14, 2009.

**Project Summary:**

Work to form Sewer District #2 was initiated back in the 1980's to serve an industrial park known as the Brookhaven Technology Center. The site is adjacent to US Department of Energy's Brookhaven National Laboratory, and is located between the Riverhead line of Long Island Railroad, and the Long Island Expressway (I-495). Sewers were installed back in the late 1980's; however, the wastewater treatment plant was never constructed. In the meantime, business have been operating and using on-site disposal systems for wastewater treatment. The discharges from these systems affect groundwater management zone III for the Suffolk County Water Authority. To better protect groundwater quality and allow for more dense economic development, an energy efficient tertiary wastewater treatment plant is being constructed to meet stringent groundwater quality standards.

Green Project Reserve (GPR) funding will be used for a variety of energy efficiency measures at the wastewater treatment plant. These measures include: level based controls on the auger fine screens; variable frequency drive (VFD) controlled blower motors for the equalization tank; level sensor controls for the micro-screen drum filter; VFD controls for the sludge holding tank blowers; premium efficiency motors (PEM) for the fine screen compactor; fine bubble diffusers with dissolved oxygen based controls for the equalization tank; PEM for nitrification/denitrification process equipment; increasing building wall insulation and upgrading exterior doors and windows; occupancy sensors on interior lighting; and a heat transfer system to move excess heat from the blower room to heat the operator's room. These proposed improvements have been approved by the U.S. Environmental Protection Agency as eligible GPR infrastructure.

**Financing Summary:**

Total project costs of \$10,153,989 will be funded with a combination of short-term interest-free financing, principal forgiveness and a Green Project Reserve grant. The Town plans to convert to SRF long-term leveraged financing in 2011.

**SEQR Findings:**

The Corporation has determined that the proposed action will finance a project that will not have a significant adverse impact on the environment: (1) the DEC has certified that this project is in compliance with the SERP, (2) no potentially large impacts have been identified; and (3) Town of Brookhaven, acting as lead agency, has issued a negative declaration.

**Construction Schedule:**

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
Construction	November 1, 2009 (T)	January 1, 2011 (T)