



CWSRF Projects C4-5450-02-70 & 02-00
Village of Richfield Springs
Otsego County
Wastewater Treatment Plant Improvements
& Infiltration/Inflow Correction

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

Estimated Amount to be Financed: \$5,570,650

EPA Approved Green Project Reserve: \$804,940

Estimated ARRA Principal Forgiveness: \$4,364,329

Estimated Principal of Long-Term Financing: \$1,206,321

Other Funding Sources: None

Prior CWSRF Recipient: Yes (X) No ()

Hardship Determination: Yes (X) No ()

Project Description:

This action consists of financing costs associated with the planning, design, and construction of improvements to the Village of Richfield Springs Wastewater Treatment Plant and replacement of designated sections of sanitary sewer. The scope of the project is defined in the engineering report entitled "Preliminary Engineer's Report, Wastewater Treatment Plant Evaluation, Village of Richfield Springs, Otsego County, New York" dated December 2003, Amended February 2009 that was approved by the NYS Department of Environmental Conservation on March 27, 2009. This report was supplemented by the engineering reports entitled "Facility Plan, Wastewater Treatment Facility Improvements, Village of Richfield Springs, Otsego County, New York" and "Facility Plan, Wastewater Collection System Improvements, Village of Richfield Springs, Otsego County, New York" both dated July 2009 and approved by the NYSDEC on September 30, 2009. The report was further supplemented to add Green Project Reserve features by the engineering report amendment entitled "Letter Amendment to the Wastewater Treatment Facility Improvements Facility Plan" dated November 18, 2009 that was determined eligible by the NYS Environmental Facilities Corporation on November 30, 2009.

Project Summary:

The Village of Richfield Springs wastewater treatment facility was upgraded to secondary treatment in 1972. Subsequent improvements were made in 1988, 1992, and 2002, however, much of the facility's process equipment and controls are outdated and/or approaching the end of their useful lives. Over the past several years, plant operators have reported violations of State Pollutant Discharge Elimination System (SPDES) permit effluent limits for ammonia, total suspended solids, biological oxygen demand, flow, and percent removals. The Village's sewer system has also been subject to high levels of infiltration and inflow entering the pipes. As a result, the NYSDEC issued an Order on Consent (Case No. R4-2001-1228-172), dated June 17, 2002, requiring the Village to evaluate the wastewater treatment facility and sewer system and implement improvements necessary to achieve compliance with the SPDES permit. Improvements include replacement of influent pumps, clarifier mechanical equipment, and tertiary pumps and filters; rehabilitation of the Pretreatment Building and aeration piping and valves; electrical upgrades; a new automatic influent bar screen; a new emergency generator and transfer switch; new fiberglass covers over the clarifiers and sludge tanks; and replacement of designated sections of sanitary sewer to reduce infiltration/inflow.

Green Project Reserve (GPR) funding will enable the Village to make energy efficient improvements at the wastewater treatment facility that include the influent pumping system, screening system, tertiary filter feed and backwash pumping systems, sludge pumping system, an innovative technology sludge treatment and disposal

Project Summary (continued):

system utilizing a reed bed, and a photovoltaic power generation system. The GPR funding will also enable the Village to purchase a hybrid pickup, electric utility vehicle, and an energy efficient lawn mower for use by the Village sewer department. These proposed improvements have been approved by the U.S. Environmental Protection Agency as eligible GPR infrastructure under the American Recovery and Reinvestment Act of 2009.

Financing Summary:

Total project costs of \$5,570,650 will be funded with a combination of CWSRF short-term interest-free financing, principal forgiveness and a Green Project Reserve grant. The Village plans to convert to long-term interest-free financing in 2010.

SEQR Findings:

The Corporation has determined that the proposed action will finance a project which constitutes "a particular course of action specifically required to be undertaken pursuant to a judgment or order" which is a "Type II" action under SEQR, pursuant to 6 NYCRR 617.5(c)(29).

Construction Schedule:

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
Wastewater Treatment Plant Improvements	January 15, 2010 (T)	July 11, 2011 (T)
Sanitary Sewer Replacement	January 15, 2010 (T)	July 11, 2011 (T)