



Green Innovation Grant Program (GIGP) No. 102

CWSRF Project No. C8-6406-03-70

Town of Jasper

Project Name: Jasper Wastewater Treatment Plant Reed Bed Project

DEC Region: 8 County: Steuben

Type of Financing: American Recovery and Reinvestment Act (ARRA) Green Innovation Grant Program

Estimated Total Project Cost: \$189,380.00

Recommended GIGP Award Amount: \$170,442.00

Local Share: \$18,938.00

Other Funding Sources: \$0.00

Project Category: Clean Water SRF. Energy Efficiency.

Project Description:

This project involves the construction of reed beds at the wastewater treatment plant as an energy efficient alternative for sludge management and installation of aeration equipment in the sludge holding tank that will result in higher energy efficiency.

Project Summary:

The Town of Jasper operates a wastewater treatment plant and currently trucks liquid sludge to another facility for disposal. The Town identified installation of aeration equipment in the sludge holding tank and construction of a reed bed to dewater and stabilize sludge as a method to reduce energy usage and save costs. The reed bed design chosen for this project will be 80% more energy efficient than the alternatives for sludge drying and transportation to another facility. The aeration equipment is necessary to provide partial digestion of the sludge and reduce odors from the reed bed.

This project is categorically eligible for GIGP financing in two categories per the United States Environmental Protection Agency's (EPA's) "Guidance for Award of Recovery Act Funding to State Revolving Funds" and subsequent guidance dated March 2, 2009:

1. Energy efficiency. Installation of new aeration equipment is categorically eligible per EPA's Guidance (page 43) to "reduce the energy consumption of water quality projects". It meets the 20% energy efficiency threshold per the "Green Project Reserve Business Case Principles and Questions and Answers" (pages 4-6, question B.1, 5 and 6) . The reed bed design chosen for this project categorically meets EPA's criteria of a 20% net energy reduction/savings.
2. Environmental Innovation. Categorically eligible projects "manage water resources in a more sustainable way, including projects that achieve pollution prevention or pollutant removal with reduced costs and projects that foster adaptation of water protection programs and practices to climate change." The EPA Guidance provides example III. g.: "projects that facilitate adaptation of clean water programs and practices to climate change" (pages 45-46). The use of reed beds to dewater and stabilize sludge from this facility reduces reliance of a Section 212 facility on fossil fuels and mitigates the climate change impacts of that facility.

Funding Summary:

The Town will provide 10% match via in kind services for hauling and materials such as stone and gravel supplemented by a cash match to be funded through the sewer fund.

SEQR Findings:

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

Construction Schedule:

<u>Description</u>	<u>Construction Start</u>	<u>Construction Completion</u>
Town of Jasper Jasper Wastewater Treatment Plant Reed Bed Project	January 25, 2010	July 24, 2010