



State Revolving Fund Loan Program  
an Indiana Finance Authority Environmental Program

100 North Senate Avenue, Room 1275  
Indianapolis, Indiana 46204  
www.srf.in.gov

**MEMORANDUM**

TO: Project File, Town of Brooklyn, Water Improvements Project,  
SRF Project # DW 12034501

FROM: Richard J. Ziemba

DATE: August 16, 2013 (Final)

RE: Green Project Reserve (GPR), Business Case

**Summary**

1. The Brooklyn Water Improvements preliminary engineering report (PER) was originally approved on March 8, 2011. Later, on April 29, 2013, an amendment to the PER was approved, which revised water main replacement lengths and sizes. The final approved project included:
  - a. Installation of approximately 5,892 feet of 6-inch water main;
  - b. Installation of approximately 2,773 feet of 8-inch water main;
  - c. Installation of 4,230 feet of 12-inch water main;
  - d. Installation of new Supervisory Control and Data Acquisition (SCADA) controls on the water tower;
  - e. Refurbishing of two groundwater wells;
  - f. Raising an existing elevated water storage tank and
  - g. Elimination of an existing water booster pump station.
2. The project will help the Town address low water pressure at places in the distribution system and a water loss in excess of 25 percent. The construction of the new water mains will replace existing leaking cast iron water mains that were installed in the 1950's. As a result of replacing its leaking water mains, the Town is estimated to save approximately 750,000 gallons per year. The project included components that met the requirements of the Green Project Reserve (GPR) category: water efficiency. Information about the components and a business case were developed and presented by Triad Associates, consulting engineers for the Town in the preliminary engineering report. The business case was fully developed after the project was bid.
3. The GPR components for the project include the water main installation, along with various valves and hydrants. The actual as-bid cost for the installation of the water main, valves and hydrants is \$600,270 and the engineering cost is \$83,738.
4. **The total as-bid GPR cost including engineering cost is \$684,008.** Brooklyn closed on a SRF loan on May 16, 2013 in the amount of \$953,000.



**Conclusions**

1. The business cases were reviewed by SRF staff and found to be in accordance with meeting the GPR requirements for the water efficiency category.