



# 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, City of Mitchell, WWTP Improvement Project  
SRF Project # WW 12404701

**FROM:** Ethel L. Morgan, PE

**DATE:** March 17, 2015

**RE:** Green Project Reserve, Business Case

### **Summary**

1. The City of Mitchell is constructing improvements to its wastewater treatment facility to replace equipment that has served its useful life, enhance process controls, and increase the peak treatment capacity of the plant.
2. The green project reserve components of this project include the installation of variable frequency drives and premium efficiency motors on the Oxidation Ditch Drives and Aerobic Digester Blowers, and the installation of LED light fixtures for site lighting. A business case was developed identifying the energy savings associated with the construction of the proposed improvements. The result of the business case shows that by installing the proposed improvements, energy costs can be reduced by 40% for a total annual energy savings of \$11,680. Therefore, the energy usage reduction exceeds the 20% reduction GPR requirement for a categorical improvement.
3. The actual as-bid energy efficient GPR cost for this project is \$702,922. The GPR planning and engineering cost for the WWTP Improvement Project is \$82,297, for a total GPR as-bid cost of \$785,219. Mitchell closed on a SRF loan on April 22, 2015 in the amount of \$3,025,000.

### **Conclusions**

1. The business case and categorical exclusion was reviewed by internal staff and found to be in accordance with meeting the GPR requirements for the energy efficiency category.

