



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, Tell City,
Public Water Supply Facilities Project
SRF Project # DW 17043302

FROM: Ethel L. Morgan, PE

DATE: June 28, 2018 (Final)

RE: Green Project Reserve, Business Case

Summary

1. Tell City is constructing improvements within its water system including installation of new high service/backwash pump and backwash filter control panels at the water treatment plant, replacement of water meters with new AMR meters, upgrading pumps and controls at the Mozart Pump Station, installing a prefabricated Hoosier Heights Pump Station at the Pestalozzi Tank, and installing approximately 2,100 linear feet of 10-inch water main and appurtenances.
2. The high service pumps at the water treatment plant, the replacement pumps at the Mozart Pump station, and the pumps at the new Hoosier Heights Pump Station all have VFDs. A SCADA system will be installed at the Hoosier Heights Pump Station. A business case was developed identifying the energy savings associated with the construction of these facilities. The result of the business case shows that by installing the VFDs and SCADA, pumping can be reduced by 34% for a total annual energy savings of \$62,200. Therefore, the energy usage reduction exceeds the 20% reduction GPR requirement.
3. The replacement of the water meters is considered categorical under the water efficiency category. The cost of the water meters is \$66,964.
4. The actual as-bid energy efficient GPR cost for this project is \$52,490 for the VFDs and SCADA. The actual cost for the water efficiency meter replacement is \$66,964. The GPR engineering cost for the project is \$32,767, for a **total GPR as-bid cost of \$152,221**. Tell City closed on a SRF loan on December 12, 2017 in the amount of \$1,735,000.

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 and the water efficiency category.

