



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: Official Loan File

FROM: Amanda Rickard

DATE: Dec. 3, 2014

RE: Green Project Reserve (GPR) Business Case
Logansport WWTP Improvements
High Flow/Wet Weather Abatement Project
SRF Project WW 15 03 09 04

Logansport proposes to address their CSO LTCP requirement of WWTP improvements and their NPDES permit requirements of maximization of combined sewage treatment and a limit of 1 mg/L for phosphorus by implementing several improvements at the WWTP: modify aeration tanks to maximize storage capacity; install phosphorus removal chemical treatment system; construct two new final clarifiers, convert two sludge storage tanks to sludge thickeners; replace the existing sludge conveyor with two conveyors; install new density baffles on the four round final clarifiers; and replace the existing belt filter presses with two new sludge dewatering centrifuges.

Sludge storage modifications include replacement of three RAS pumps. The new pumps will be equipped with VFDs and will significantly reduce energy use. Biological phosphorus removal will be possible by creating an anoxic zone in the aeration tanks. Reduction of the aeration grid will reduce energy use. These proposed project components, along with energy efficient lighting, are considered to be green under the energy efficiency category. The business case developed by Commonwealth Engineers, Inc. was reviewed and found to meet the GPR requirements for the energy efficiency category.

The total GPR cost is \$762,862. Of this, the construction cost based on bids is \$685,000 and engineering cost is estimated at \$77,862. Logansport plans to close an SRF loan in the amount of \$6,700,000 on December 15, 2014.