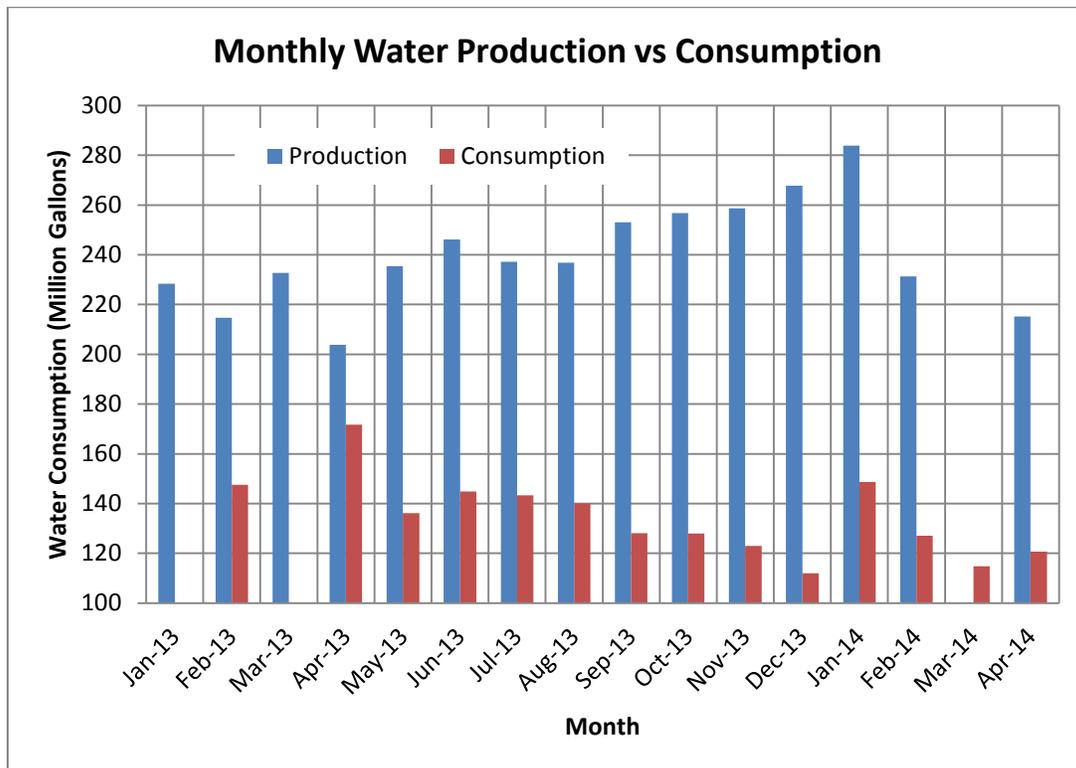


St. Bernard Parish

LDHH-DWRLF Water Efficiency Case for Green Project Reserve Drinking Water Line Replacement Project

Project Description

The current water distribution system for St. Bernard Parish is comprised mostly of cast iron pipe segments that are in excess of 70 years old. The system is losing a large amount of the water pumped due to leaks. A comparison of the yearly water production and consumption from January 2013 to April 2014 is shown in the figure below. The production verses consumption indicates a loss of approximately 57%.



St. Bernard Parish Water Production & Consumption Comparison

By replacing deteriorated water lines within the system, the new water lines will reduce the amount of water produced, saving water and energy costs associated with pumping less water. There will also be a reduction in risk to customers with increasing pressures throughout the water distribution system with the replacement of water lines.

The current water system of St. Bernard Parish serves a population of 43,482 people (according to 2013 US Census Bureau Estimate). The current water system includes approximately 16,065 service

connections. The current water system serves 14,628 residential customers, 1,400 commercial customers and 37 industrial customers (as of June 2014).

The proposed project has two parts. One part of the project consists of the replacement of existing cast iron piping with PVC along 31 waterline segments within the distribution system. It will also include the replacement of fire hydrants, valves, service lines, meters, and fittings along the length of the replacement waterlines. The second part of the proposed project includes installation of a new PVC waterline loop. This portion of the project will also involve the addition of fire hydrants, valves, service lines, meters, and fittings along the length of the new water line loop.

The estimated cost of the project is listed below:

Construction Costs: \$18,864,000

Engineering: \$1,810,000

Legal Fees: \$126,000

Contingencies: \$200,000

Total Project Cost: \$21,000,000