

Capital Improvement Plan

2011 *thru* 2015

City of Gardner, Kansas

Department Public Works
Contact Water/Wastewater Manager
Type Improvement
Useful Life Unlimited
Category Water
Priority 2 Very Important

Project # PWW-09-09
Project Name Hillsdale Plant Modular Treatment Additions

Cash or Debt: Debt

Total Project Cost: \$1,800,000

Description

Install 2 new 1 million gallon water treatment modules at Hillsdale Plant.

Justification

Current projections show that the City will need additional water treatment capacity by the year 2019. Previous projections had anticipated the need by the year 2014. By installing modular treatment capacity, we can add capacity at a substantial reduction in cost. The modular treatment is intended to be temporary, but can be used for extended time frames of 5 to 10 years. This could delay the construction of a permanent plant for at least 10 years.

This also delays the need for the transmission line expansion project for 10 to 15 years by using the remaining 2 mgd capacity in that line.

Future

1,800,000

Total

Future

1,800,000

Total

Budget Impact/Other

None

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Category Water
Priority 3 Important

Project # PW-08-09
Project Name Additional Water Storage Tank

Cash or Debt: Debt

Total Project Cost: \$2,600,000

Description

Construct a new 3 million gallon water storage tank at an undetermined location.

Justification

Current projections show that the City will need additional water storage some time between 2017 and 2021. Due to the current slow growth, this time frame may be extended.

The recommended storage for the City is equal to the average daily usage (currently 2.1 MGD). Gardner's current storage volume is 3.5 million gallons. Current projections show that this storage volume must be expanded between 2017 and 2021. Breakdown of current storage capacity is as follows:

183rd Street Tower: 500,000 gallons
Kill Creek Tower: 1,000,000 gallons
Downtown Underground: 500,000 gallons
Downtown Aboveground: 500,000 gallons
Hillsdale Clear Well: 1,000,000 gallons

The location of the storage tank is not yet determined. The City's 2004 Water Master Plan shows a location at 151st and Moonlight but it is doubtful that that location will ever be within the City's water service area.

This new tank could be either be an elevated "gravity" tank or a pumped stand pipe.

Future

2,600,000

Total

Future

0

Total

Budget Impact/Other

None

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