

FOR BOARD ACTION

Agenda Item # 5

Meeting Date:

2/24/09

SUBJECT: Water Distribution System Modeling Study
(2008 Year Three Status Report)

PREPARED BY: Doug Rovang, Senior Civil Engineer

ITEM DESCRIPTION:

A four-year future water system expansion study was initiated in 2006. The ongoing study, being accomplished by Progressive Consulting Engineers, is evaluating future water system infrastructure needs in the more rapidly developing areas within and around the City. A water system computer modeling technique called extended period simulation (EPS) is being used to assist in determining the future need for additional wells, water storage tanks, and trunk water mains in each of these areas.

The first-year study, accomplished in 2006, evaluated the Hadley Valley northeast area. The results were used to determine the size of the 1,000,000 gallon Morris Hills NE reservoir placed in service last summer.

The 2007 portion of the study evaluated the Northwest High Level Area (west of West Circle Drive between Highway 14 and 65th Street NW). The results of that portion of the study were used to determine the appropriate size of a proposed 2,000,000 gallon water tower currently being designed and planned for construction during the 2009-2010 time period near the intersection of 41st Street NW (extended) and 50th Avenue NW.

RPU Staff and Mr. Naeem Qureshi of Progressive Consulting Engineers will provide an update on results of the third year of the study, conducted during 2008, which evaluated the Main Level Service Area (which extends through the central, lower elevation portion of the City between 48th Street South and 75th Street North.

UTILITY BOARD ACTION REQUESTED:

No action is required by the Utility Board.


General Manager


Date

ROCHESTER PUBLIC UTILITIES