

COUNCIL ACTION FORM

**SUBJECT: WATER POLLUTION CONTROL FACILITY BIOSOLIDS STORAGE
AND HANDLING IMPROVEMENTS**

BACKGROUND:

The Water Pollution Control (WPC) Facility utilizes a 3.1-million-gallon, lined biosolids storage lagoon to hold biosolids for land application on City-owned farm ground. Land application of biosolids primarily occurs in the fall of each year after the crops are harvested. The existing storage lagoon does not provide 365 days of biosolids storage.

Due to a short land application window between removal of crops and the onset of winter weather, the lack of storage capacity can create operational flexibility issues during years where biosolids land application is delayed due to adverse weather conditions. Furthermore, additional storage capacity will be needed within the next six to ten years when pending nutrient removal requirements are implemented. A Residuals Handling Study completed in 2010 recommended an additional 1.6 million gallons of storage capacity.

On June 25, 2013, Council approved an engineering services agreement with Veenstra & Kimm, Inc. for the design of the WPCF Biosolids Storage and Handling Improvements. These improvements include construction of the recommended 1.6-million-gallon biosolids storage tank to complement the existing storage lagoon, load out station, and associated piping. Veenstra & Kimm has worked with staff to finalize the design of these improvements. Additionally, staff has obtained a construction permit for the improvements through the Iowa Department of Natural Resources (IDNR) and applied for low interest funding for the project through the Clean Water State Revolving Fund (SRF) loan program.

The estimated project costs for these improvements are as follows:

Engineer's Opinion of Probable Construction Cost	\$ 1,790,000
Construction Contingency (10%)	179,000
Engineering	144,400
Total	<hr/> \$ 2,113,400

The adopted Capital Improvements Plan budget for this project is as follows:

Fiscal Year 2013/14	\$ 625,000
Fiscal Year 2014/15	933,000
Fiscal Year 2015/16	618,000
Total	<hr/> \$ 2,176,000

The funding source for these improvements shown in the Capital Improvements Plan is the Clean Water State Revolving Fund.

ALTERNATIVES:

1. Grant preliminary approval of plans and specifications for the WPC Facility Biosolids Storage and Handling Improvements and issue a notice to bidders; setting March 25, 2015, as the bid due date, and April 14, 2015, as the date of public hearing and award of contract.
2. Do not approve plans and specifications at this time.

MANAGER'S RECOMMENDED ACTION:

Adequate biosolids storage capacity is needed to ensure that the WPC Facility remains operational and in compliance with its NPDES permit. Additionally, an increase in biosolids storage capacity will be needed in the near future when nutrient removal requirements become a part of the WPC Facility's NPDES permit. The SRF financing is in place and a construction permit has been received from the IDNR.

Therefore it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, thereby granting preliminary approval of the plans and specifications and issuing a notice to bidders to construct biosolids storage and handling improvements, setting March 25, 2015, as the bid due date, and April 14, 2015, as the date of public hearing and award of contract.