



Legislation Details (With Text)

**File #:** Res. 2016-078      **Version:** 1      **Name:**

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**File created:** 7/19/2016      **In control:** City Council

**On agenda:** 8/2/2016      **Final action:**

**Title:** Consideration to Approve Plans and Specifications and Authorize Advertisement for Bids for the 2016 Wastewater Treatment Plant’s Ultra Violet Disinfection Process.

**Sponsors:**

**Indexes:**

**Code sections:**

**Attachments:** 1. 1 - Resolution, 2. 2 - Bolton & Menk UltraViolet Disinfection Replacement Project Memo, 3. 3 - Project Improvements Cost Summary, 4. 4 - Project Process, 5. 5 - Draft Plans, 6. 6 - Draft Specifications

Date	Ver.	Action By	Action	Result
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**City Council Meeting Date:** August 2, 2016

**To:** Mayor and City Council  
City Administrator

**From:** David Bennet, PE, Public Works Director/City Engineer  
Doug Lien, Utilities Manager  
Richard Kucera, Wastewater Plant Foreperson

Consideration to Approve Plans and Specifications and Authorize Advertisement for Bids for the 2016 Wastewater Treatment Plant’s Ultra Violet Disinfection Process.

**Action Requested:**  
Staff recommends approval of the Resolution Approving Plans and Specification and Authorizing Advertisement for Bids for the 2016 Wastewater Treatment Plant’s Ultra Violet Disinfection Process.

**Summary Report:**  
The Northfield City Council is being asked to approve plans and specifications and authorize advertisements for bids for the 2016 Wastewater Treatment Plant’s Ultra Violet Disinfection Process. This improvement has been identified by the Wastewater Treatment Plant (WWTP) Facility Study that was adopted by the City Council on February 16, 2016. Plans and specifications may be viewed on the City’s website project page - <http://ci.northfield.mn.us/index.aspx?NID=1072>

The existing UV system requires on-going maintenance, and the manufacturer has indicated they will stop providing support to this model within the next year. It is recommended that the existing UV equipment be replaced during the non-disinfection period of the UV process. Within the City of Northfield’s permit from the Minnesota Pollution Control Agency, the non-disinfection period takes place from November 1 through March

31 of every year.

During the non-disinfection period, the WWTP Facility Study indicated the replacement of the UV system would include the removal of the existing units, modifications of the channel to accommodate the new units, and installation of the new UV units and power supplies. In addition, upgrades would be made to the SCADA system to accommodate system monitoring.

**Alternative Options:**

The City Council could decide not to go forward with the preparation of plans and specifications, which staff does not recommend because this would put off the replacement of the UV disinfection system for another year.

**Financial Impacts:**

The project budget for the UV Equipment Replacement Project is \$893,750. We are in the process of selling bonds to finance the project. The sale was authorized on July 19<sup>th</sup>, and the bonds will come back to the council on August 16<sup>th</sup>. The project is currently estimated 6% below the project budget, as summarized below.

<b>UV Equipment Replacement - Estimated Cost</b>	
New UV Equipment:	\$320,000
Installation of Equipment:	\$75,000
Other Construction Costs:	\$177,800
<b>Subtotal</b>	<b>\$572,800</b>
Contingencies and Overhead:	\$120,288
SCADA	\$28,000
Engineering	\$116,154
<b>Total Project Cost</b>	<b>\$837,242</b>

The engineers project cost summary is attached.

**Tentative Timelines:**

See Project Process.