



## *Wastewater Utility*

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July 9, 2019

Mayor Chuck Fewell  
Board of Works and Public Safety  
10 South State Street  
Greenfield, IN 46140

Re: UV Disinfection System

Mayor and Board Members,

The heavy rain and flooding that occurred in the middle of June caused extensive damage to our UV disinfection system. The channel that the system was installed in backed up and flooded, completely submerging the modules. All of the circuitry and control boards are housed in the module ballast trays, and while these water tight, they are not water proof. Being exposed to this amount of moisture caused many components to fail. After reviewing the system with a manufacturer's rep and estimating the repair cost, we have determined that it would not be a good use of resources to continue to repair a system that will likely be replaced in the coming years.

Due to the emergency nature of the situation, and the need to meet the disinfection requirement of our discharge permit, we have set up and installed a chemical feed system. In order to chlorinate and de-chlorinate the plant effluent, we had to purchase 2 chemical metering pumps and some miscellaneous supplies. All of the installation work has been completed by utility staff. We are also working with Commonwealth on this since it will require a permit modification for the change in treatment method.

While there is an added cost for the chemical feed system and the chemicals going forward, we feel this is the best way to proceed and the most cost effective option going forward. If there are any questions regarding this change or if any other information is needed, please let me know.

Best Regards,

A handwritten signature in black ink, appearing to read 'N. Dezelan', written in a cursive style.

Nicholas Dezelan, CHMM, ASP

Wastewater Utility Manager

CC: Michael Fruth

Dan Worl