



**CITY OF WARSAW
WASTEWATER TREATMENT UTILITY**

www.warsawcity.net

Plant 1	794 W. Center Street Warsaw, IN 46580	Phone: 574-372-9562 Fax: 574-372-3040
Plant 2	2056 N. 150 W. Warsaw, IN 46580	Phone: 574-267-8118 Fax: 574-267-2025

February 17, 2010

Ford Hall Company, Inc.
Attn: Melissa Gill
P.O. Box 2110
Richmond, KY 40476

Dear Melissa,

Thank you for the items that you sent. I am sorry I have taken so long to respond to you. I would be happy to write a testimonial for the Weir-Wolf System that we have. We have been very satisfied to this point and have told others how well we like the Wier Wolf.

Thank You,

A handwritten signature in cursive script that reads "Brian Davison".

Brian Davison
Utility Manager
City of Warsaw



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The City of Warsaw Operates two wastewater plants each permitted for 4 MGD. The newest facility was put into service in November 2003. The plant is an extended air oxidation ditch with two circular secondary clarifiers, UV disinfection, and post aeration.

We had two problems that were due to the secondary clarifiers. The first one was the amount of algae growth on the wiers and effluent channel. The second problem was the amount of time we spent dealing with the algae. The algae would break off naturally or during cleaning and plug the UV system.

The first attempt to prevent this problem from occurring was to install a screen in front of the UV system. This helped but we still had problems with the UV system plugging. We were also cleaning the wiers and channel weekly, especially through the warmer months. This cleaning took a minimum of 2 days every week to complete, if we got in the channel to really scrub the algae off it would take the better part of a week to finish. The screen also needed to be pulled at least once per week to clean it. This took an hour to pull it, clean it, and put back into operation.

We looked at several options to clean the wier and channel. After talking to other utilities, we contacted the Ford Hall Company to inquire about the Wier Wolf system. In March 2009 Ford Hall Company installed the Wier Wolf System in one of our clarifiers. The system ran from March to November at which time the clarifier was taken off line. The reason it was taken off line is that our plant is under loaded and we currently only operate one of the two clarifiers at a time. We did not have a single problem with the UV system clogging for the entire disinfection season (April 1 – October 31). We also reduced our man hours spent cleaning to just a couple of hours a week. This time was spent checking the Wier Wolf system and minor cleaning. The brush life has been very good. We did not have to replace any of the brushes for the entire time in use. This was a concern due to the fact that the channel surface is not smooth.

The Ford Hall Company has been excellent to work with. The installers sent to the plant were professional and completed the job in approximately two days. The installers also provided training to the staff on the operation and maintenance of the Wier Wolf.



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The utility is currently considering installing the Weir Wolf in our second Clarifier. The plan for the city is to close the old plant and for the new plant to treat all of the flow from the city, at that time we will need to operate both clarifiers. When this occurs we will install the Weir Wolf in the second clarifier. The Wier Wolf has been a tremendous time saver and improved the operation of the disinfection system.

I would recommend the Ford Hall Company and the Weir Wolf System.

Thank You

Brian Davison
Utility Manager
City of Warsaw