



State of Ohio Environmental Protection Agency

**Northeast District Office**

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Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korteski, Director

July 28, 2009

RE: City of Solon Water Reclamation Plant  
Cuyahoga County  
Compliance Evaluation Inspection  
NPDES Permit 3PD00019 (OH0027430)

Mayor and Council  
City Hall  
34200 Bainbridge Road  
Solon, OH 44139

Dear Mayor and Council:

On July 16, 2009, this office met with Messrs. Paul Solanics and Rich Landman to conduct an inspection of the above referenced wastewater treatment plant (WWTP). The purpose of the inspection was to obtain and review information in anticipation of renewal of the National Pollutant Discharge Elimination System (NPDES) permit. The NPDES permit for this facility will expire on July 31, 2009. Receipt of the renewal application by the Ohio EPA authorizes the permittee to discharge beyond the expiration date.

**Wastewater Treatment Plant**

The wet stream treatment process consists of flow equalization, bar screens, grit removal, primary settling, trickling filters, aeration, secondary settling, rapid sand filters and ultraviolet disinfection. Phosphorous removal is achieved through the addition of ferric chloride. Primary sludge is anaerobically digested before combining with waste activated sludge from the gravity thickener. The combined sludge is dewatered by a belt filter press and hauled to a landfill for proper disposal.

At the time of the inspection the facility appeared to be well maintained. All components necessary for the treatment of current flows were in service. Renovation of the tertiary filters has been completed. Renovation of the anaerobic digesters is currently in the design phase.

Two treatment system bypass locations were noted and discussed during the inspection. The bypasses involve the diversion from treatment located (1) at the headworks; and (2) after secondary settling prior to the rapid sand filters (tertiary bypass).

Please be advised, the diverting or bypassing of wastewater from any portion of the treatment facility is prohibited and may be subject to an enforcement action. All bypass events must be reported as an unauthorized discharge in accordance with Part III, items 11 and 12, of your NPDES permit. Notification forms are available on our web site at <http://www.epa.state.oh.us/dsw/permits/permits.html>

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### **Collection System**

The collection system consists of gravity sewers and twenty pump stations and force mains. The service area is the City of Solon. The Ambina, MetroParks and Forest Lane pump stations were recently renovated. Improvements at the pump stations include the replacement of controls, pumps and force mains and increased wet well capacity. In an effort to identify and reduce inflow and infiltration (I/I), it is our understanding that the City has performed flow monitoring and dye testing of the collection system. A study has been prepared which identifies areas of concern.

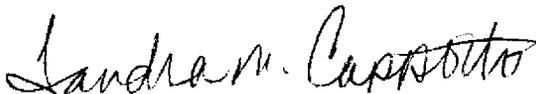
### **Conclusion**

Within thirty days of the date of this letter provide this office with a report that indicates the problem areas of the collection system and the action taken or to be taken (include dates) to eliminate I/I.

A draft copy of the renewal permit will be sent under separate cover. Any comments regarding the draft permit must be submitted in writing during the public notice period.

If you should have any questions please contact this office at (330) 963-1124.

Sincerely,



Sandra M. Cappotto  
Environmental Scientist  
Division of Surface Water

SMC/mt

pc: Paul Solanics, Director, City of Solon Water Reclamation Department