



State of Ohio Environmental Protection Agency

**Southeast District Office**

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

May 26, 2009

**Re:** Guernsey County  
Rolling Hills WWTP  
Compliance Evaluation Inspection  
Correspondence (PWW)

Mayor Don Gadd  
Village of Byesville, Receiver for Utility Operator Corp.  
221 East Main Street  
P.O. Box 8  
Byesville, Ohio 43723

Dear Mayor and Council:

On April 23, 2009, I conducted a compliance evaluation inspection (CEI) of the Rolling Hills wastewater treatment plant. The purpose of the inspection was to determine compliance with the terms and conditions of National Pollutant Discharge Elimination System (NPDES) permit number 0PW00007\*FD. This inspection was also conducted to determine what improvements have been made since my prior meeting with the village on March 24, 2009. Plant operators, Ryan Kasper and Karen Froehlich were present at the time of my inspection in addition to Village Administrator, Randy Mercer.

Based on the findings of my inspection and the review of our records, I have the following comments:

1. Inspection of the three aeration basins and clarifiers showed all treatment components to be fully operational and well maintained. At the time of my inspection the surface of the clarifiers were clear as the weir plates and trough contained only a minimal amount of algae. According to Mr. Kasper the weirs of all three clarifiers are cleaned weekly and more frequent upon warmer weather to prevent significant buildup which can wash out to the up-flow clarifiers. It was suggested to prevent excessive algae growth in the clarifiers that an easily removable cover be placed over the clarifiers to prevent sunlight penetration.
2. Discussion was held with the operators to gain a better understanding of how the facility is operated during storm events which can produce elevated flows as a result of infiltration and inflow (I&I) in the collection system. According to Mr. Kasper, the High Avenue lift station's high level alarm is used as a notification tool to inform either him or Ms. Froehlich that storm flows could be expected at Rolling Hills. Upon receiving this notification, a plant operator will go to the facility and shut off the air supply to the aeration basins which prevents excessive solids washout.

This procedure was recommended by staff from our compliance assistance unit and has been effective to prevent the washout of solids from the clarifiers into the filter beds. The air supply is placed back online following the cessation of the elevated flows from the storm events. In order to prevent potential effluent violations due to the absence of aeration during these storm flows, an official wet weather treatment policy shall be developed and submitted describing how adequate aeration will be provided in a timely manner to ensure permit compliance. The recent rain event on Tuesday, April 21, 2009 triggered this process and inspection of the clarifiers on Thursday revealed their surfaces to be clean and only a moderate level of solids on the filter bed.

3. Inspection of the five up-flow fixed media clarifiers showed the weirs to be relatively clean and the surfaces clear. It was suggested to prevent significant algae growth on the weirs that a removable cover be placed over the fixed media tanks. The surfaces of the media grids contained a moderate level of sludge which was observed below the top of the grid ridges. According to Mr. Kasper, sludge is removed by decanting the clear water into the weir troughs and then pumping the sludge into the adjacent sludge holding tank. The fixed media clarifiers are pumped down and cleaned as needed upon the buildup of sludge above the media grid ridges.
4. At the time of my inspection, two filter beds were clean and off line available for future use upon the need to clean either the one or two beds most recently used. The most recently used filter bed was used for approximately two months and flow was recently switched to a new clean bed. The filter beds all appeared to be deficient in filter sand as the top of the sand was several inches below the splash pads. The filter beds should be evaluated to ensure there is a sand depth of 18" inches and appropriate measures taken in the future to replenish deficient beds with additional sand. The inspection also revealed that all necessary repairs were completed on the interior dividing wall of the two northern beds and all filter bed walls were found to be in acceptable condition.
5. At the time of my inspection, the facility only has one primary lift station pump and the valve vault contains plumbing for only one pump. As was discussed in the March 24, 2009 meeting, completing the repairs to the lift station and valve vault should be the top priority at this facility. The primary lift station wet well should be installed as a duplex pump system wired into a control panel to provide automatic backup controls in the event of a pump failure. The control panel should include pump alternators which will automatically alternate pump uses, individual hourly run meters, and a high level alarm with wiring capabilities to install future telemetry. Technical information to assist with this pump installation and the proper wiring setup has already been forwarded to the village. Plumbing repairs shall also be made in the valve vault to allow operation of both pumps and the proper valves installed to permit the use of a bypass pump connection in the event of pump failures or power outages.

6. The other major operational need at the facility is the installation of a duplex pump system and control panel with alternators for the equalization basin. Currently the facility has only one equalization tank pump for the pumping of equalized wastewater flow into the three aeration basins although overflow lines are installed in the event of a pump failure. The village has been in recent discussion with our compliance assistance unit to properly size a new pump and is making efforts to purchase another pump in the near future.

It was discussed with your operators and Village Administrator, Randy Mercer, at the time of my inspection immediate efforts should be made to make necessary repairs to the primary lift station. At the time of my inspection and from information gathered during our recent meeting, the village has made a verbal commitment to begin the necessary repairs to the lift station and valve vault. Once these repairs are made to the primary lift station, a pump draw down test shall be conducted to determine an accurate pump rate to use for calculating peak influent flow rates. Additional pump draw down tests should be conducted on the filter bed dosing pumps or those used in calculating effluent flow rates to provide a more accurate flow rate. Please provide a written response within **30** days upon receipt with an expected schedule as to when the primary lift station and valve vault will be repaired. A response to the other deficiencies listed above should also be included.

During our meeting on March 24, 2009, a discussion was held regarding past evaluations of the sanitary sewerage system for sources of I&I. In our meeting, it was requested that a collection system map be submitted to our office highlighting areas which have been evaluated and delineating sources of I&I. The village has addressed some identified sources of I&I to reduce the storm flows and continued efforts should be made to prioritize and eliminate other identified sources. Please submit a complete collection system map if accessible or provide other equivalent documentation describing your planned I&I control plan.

Attached is a copy of my detailed inspection report. If you have any questions, please contact me at (740) 380-5416.

Sincerely,



Jake Greuey  
District Representative  
Division of Surface Water

JGG/dh

Enclosure

c: Randy Mercer, Village Administrator

**NPDES**  
Compliance Inspection Report

**A. NATIONAL DATA SYSTEM CODING**

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
0PW00007*FD	OH0075809	April 23, 2009	C	S	1

**B. FACILITY DATA**

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Rolling Hills WWTP Jackson Township Rd 434 & 435 Guernsey County, Ohio	8:30 a.m.	July 1, 2003
	Exit Time	Permit Expiration Date
	10:20 a.m.	June 30, 2008

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Ryan Kasper, Operator Karen Froehlich, Operator	
Name, Address and Title of Responsible Official	Phone Number
Mayor and Council Village of Byesville 221 East Main Street PO Box 8 Byesville, Ohio 43723	

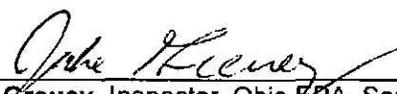
**C. AREAS EVALUATED DURING INSPECTION**

- |  |   |   |
|--|---|---|
| <input checked="" type="checkbox"/> S Permit                   | <input checked="" type="checkbox"/> M Flow Measurement          | <input type="checkbox"/> -- Pretreatment                      |
| <input checked="" type="checkbox"/> S Records/Reports          | <input checked="" type="checkbox"/> N Laboratory                | <input type="checkbox"/> -- Compliance Schedules              |
| <input checked="" type="checkbox"/> S Operations & Maintenance | <input checked="" type="checkbox"/> S Effluent/Receiving Waters | <input checked="" type="checkbox"/> S Self-Monitoring Program |
| <input checked="" type="checkbox"/> S Facility Site Review     | <input checked="" type="checkbox"/> S Sludge Storage/Disposal   | <input type="checkbox"/> Other                                |
| <input checked="" type="checkbox"/> M Collection System        |   |   |

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

**D. SUMMARY OF FINDINGS/COMMENTS** (attach additional sheets if necessary)

See attached letter.

  
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Jake Greuey, Inspector, Ohio EPA, Southeast District Office

5/26/09  
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Date

  
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Timothy M. Campbell, Reviewer, Ohio EPA, Southeast District Office

5/26/09  
\_\_\_\_\_  
Date