



Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

March 15, 2012

Re: Jefferson County
Ridgeland Subdivision WWTP
Compliance Evaluation Inspection
NPDES Permit 0PG00053*ED
OH0050032
Correspondence (PWW)

Jefferson County Water and Sewer District
P.O. Box 2579
Wintersville, Ohio 43953

Dear Jefferson County Water and Sewer District:

On November 9, 2011, I conducted a compliance evaluation inspection at the County's Ridgeland Subdivision wastewater treatment plant. Operator Walt Kubat represented the County during the inspection.

We have received self-monitoring reports covering the months of June through September 2011 for the referenced facility. Our review indicated the following violations of the conditions of your NPDES permit.

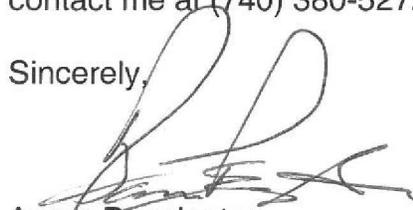
Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	00530	Total Suspended Solids	30D Conc	12	14.8	6/1/2011
001	00530	Total Suspended Solids	7D Conc	18	23.	6/8/2011
001	00530	Total Suspended Solids	30D Conc	12	13.25	7/1/2011
001	00530	Total Suspended Solids	7D Conc	18	25.	7/15/2011
001	00400	pH	1D Conc	6.5	6.4	8/11/2011
001	00530	Total Suspended Solids	30D Conc	12	23.6	9/1/2011
001	00530	Total Suspended Solids	7D Conc	18	19.	9/1/2011
001	00530	Total Suspended Solids	7D Conc	18	45.	9/8/2011
001	00530	Total Suspended Solids	7D Conc	18	19.	9/15/2011
001	00530	Total Suspended Solids	7D Conc	18	32.	9/22/2011

This facility has had Total Suspended Solids(TSS) violations routinely since the Ohio EPA Permit No. J500*BD was issued with effective date February 18, 1983. That permit was issued with TSS concentration limits of 12 mg/L for 30-day and 18 mg/L for 7-day. The previously issued permit J500*AD with effective date of May 22, 1975 was issued with TSS concentration limits of 20 mg/L for 30-day and 30 mg/L for 7-day. The facility is an extended aeration plant with no tertiary sand filters. The previous permits did not include a compliance schedule to upgrade and/or include tertiary filters or expand clarification.

The County has assessed connecting Ridgeland to Toronto as part of previous compliance talks. The cost for implementing the connection was reportedly too costly in the vicinity of \$2 Million. The county should provide a response within 30 days of receipt of this letter to identify what means will be pursued to obtain compliance with the NPDES. In order to meet the limits in the existing permit, an improvement project appears necessary. Adding a tertiary filter or perhaps replacing the air lift pumps for the return activated sludge should be investigated. An adjustable RAS flow may help develop better settling solids improving effluent TSS. A modification often made to similar plants is to install Geysier air lift pumps. See <http://airliftump.com/index.htm>

A copy of the inspection report is enclosed. The assistance and cooperation received during the inspection was appreciated. If you have any questions, please feel free to contact me at (740) 380-5272.

Sincerely,



Aaron Pennington
District Representative
Division of Surface Water

AMP/dh

Enclosure

NPDES Compliance Inspection Report

A. NATIONAL DATA SYSTEM CODING

Permit No.	NPDES No.	Date	Inspection Type	Inspector	Facility Type
OPG00053*ED	OH0050032	November 9, 2011	CEI	S	1

B. FACILITY DATA

Name & Location of Facility Inspected	Entry Time	Permit Effective Date
Jefferson County Water & Sewer District Ridgeland Subdivision Wastewater Treatment Plant Intersection of NE Ridgeland Dr. & County Road 46 Island Creek Township	~12:05 P.M.	September 1, 2008
	Exit Time	Permit Expiration Date
	~12:20 P.M.	August 31, 2013

Name(s) & Title(s) of On-Site Representative(s)	Phone Number(s)
Walt Kubat, Chief Operator	(740) 264-2888
Name, Address, & Title of Responsible Official	Phone Number
Jefferson County Water and Sewer District P.O. Box 2579 Wintersville, Ohio 43953	

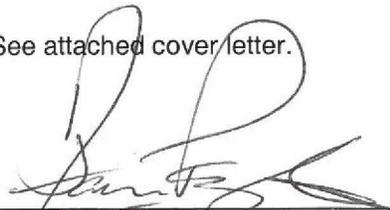
C. AREAS EVALUATED DURING INSPECTION

<u> M </u> Permit	<u> S </u> Flow Measurement	<u> N/A </u> Pretreatment
<u> S </u> Records/Reports	<u> S </u> Laboratory	<u> N/A </u> Compliance Schedules
<u> S </u> Operations & Maintenance	<u> S </u> Effluent/Receiving Waters	<u> S </u> Self-Monitoring Program
<u> S </u> Facility Site Review	<u> N/A </u> Sludge Storage/Disposal	<u> </u> Other
<u> S </u> Collection System		

(S = Satisfactory; M = Marginal; U = Unsatisfactory; N = Not Evaluated; N/A = Not Applicable)

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

See attached cover letter.



Aaron M. Pennington, Inspector, Ohio EPA, Southeast District Office

3-15-12
Date



Jennifer M. Witte, Reviewer, Ohio EPA, Southeast District Office

3/15/12
Date