



State of Ohio Environmental Protection Agency

Northeast District Office

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Twinsburg, Ohio 44087

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

July 7, 2008

RE: WAYNE COUNTY  
VILLAGE OF SMITHVILLE  
NPDES# 3PB00046

Mr. Charles Heath, Superintendent  
Smithville WWTP  
485 Northeast Street  
Smithville, OH 44677

Dear Mr. Heath:

On June 10, 2008, this writer, accompanied by Chris Moody of this office, conducted an inspection of the sewage treatment plant for the Village of Smithville (Village). The intent of the inspection was to evaluate the compliance, operations and maintenance of the treatment system.

The wastewater treatment system consists of raw pumping, comminutor/wet well, rotating screens, clarifiers, flow equalization tanks, digesters, fixed media clarifiers, UV disinfection and drying beds. Our inspection of the wastewater treatment plant revealed the following:

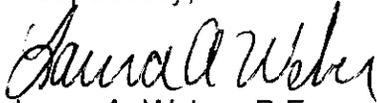
- 1) The treatment plant was producing what appeared to be a satisfactory quality effluent. The mixed liquor in the system was a grayish brown color with foam and floatable solids noticeable in the flow equalization tank.
- 2) At the time of the inspection, a significant amount of pin floc and solids were noticed in the clarifiers. The clarifier weirs were loaded with solids and pin floc was noticed passing through the weirs. None of the eight fixed media clarifiers appeared to be in operation. The clarifiers should be checked periodically for pin floc formation. The buildup of solids in the clarifiers must be checked and any excessive buildup should be removed. In addition, the weirs need to be cleaned on a regular basis.
- 3) The sludge drying beds were full of vegetation and did not appear to be in use. The digesters were somewhat full and contained good air circulation. An accumulation of algae and solids was present on the bottom of the effluent channel. The final effluent into the receiving stream was clear and the creek appeared somewhat cloudy.
- 4) Evidence of a sanitary overflow or spill was located near the rotating screens. We would like to remind the Village that your NPDES permit contains a station for sanitary sewer overflows. According to your NPDES permit, Station 300 should be used when there is a sanitary sewer overflow at the wastewater treatment plant. If an overflow occurs and is not reported, it is considered a violation of the NPDES permit.

MR. CHARLES HEATH, SUPERINTENDENT  
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- 5) A summary of the wastewater treatment plant discharge violations for the period of January 2006 through May 2008 has been attached to this letter. There are a significant amount of frequency violations that are of concern to this office. Please review the attached violation list and make sure it is accurate. Any reporting errors or eDMR errors must be reported to this office so it can be resolved. You may contact Mr. James Roberts of this Agency's Central Office at (614) 644-2054 to discuss this issue directly.

Please respond within 30 days from the date of this letter which addresses the wastewater treatment plant maintenance issues noted in this letter. If you have any questions or comments regarding this letter, please contact this office at (330) 963-1299.

Respectfully,



Laura A. Weber, P.E.  
Environmental Engineer  
Division of Surface Water

LAW:bo

pc: Wayne County Health Dept.

ec: Rich Blasick, P.E., DSW, NEDO

File: Public/Smithville/PC

Effluent Limit Violations:

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2006	001	01119	Copper, Total Recover	30DConc	22	24	3/1/2006
March 2006	001	01119	Copper, Total Recovera	30D Qty	0.0234	.02861	3/1/2006

Frequency Limit Violations:

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
February 2006	001	00530	Total Suspended Solids	2/Week	2	1	02/22/2006
February 2006	001	00610	Nitrogen, Ammonia (NH3	2/Week	2	1	02/22/2006
February 2006	001	80082	CBOD 5 day	2/Week	2	1	02/22/2006
March 2006	001	50050	Flow Rate	1/Day	1	0	03/22/2006
March 2006	001	50050	Flow Rate	1/Day	1	0	03/30/2006
April 2006	001	00530	Total Suspended Solids	2/Week	2	1	04/22/2006
April 2006	001	00610	Nitrogen, Ammonia (NH3	2/Week	2	1	04/22/2006
April 2006	001	80082	CBOD 5 day	2/Week	2	1	04/22/2006
December 2006	581	51129	Sludge Fee Weight	1/Year	1	0	12/01/2006
March 2007	001	00010	Water Temperature	1/Day	1	0	03/01/2007
March 2007	001	00530	Total Suspended Solids	2/Week	2	0	03/01/2007
March 2007	001	00610	Nitrogen, Ammonia (NH3	2/Week	2	0	03/01/2007
March 2007	001	50050	Flow Rate	1/Day	1	0	03/01/2007
March 2007	001	80082	CBOD 5 day	2/Week	2	0	03/01/2007
March 2007	001	00556	Oil and Grease, Freon	1/Month	1	0	03/01/2007
March 2007	001	00665	Phosphorus, Total (P)	1/Month	1	0	03/01/2007
March 2007	001	00400	pH	1/Day	1	0	03/01/2007
March 2007	001	00630	Nitrite Plus Nitrate,	1/Month	1	0	03/01/2007
March 2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/01/2007
March 2007	001	00010	Water Temperature	1/Day	1	0	03/02/2007
March 2007	001	50050	Flow Rate	1/Day	1	0	03/02/2007
March 2007	001	00400	pH	1/Day	1	0	03/02/2007
March 2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/02/2007
March 2007	001	00010	Water Temperature	1/Day	1	0	03/03/2007
March 2007	001	50050	Flow Rate	1/Day	1	0	03/03/2007
March 2007	001	00400	pH	1/Day	1	0	03/03/2007
March 2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/03/2007
March 2007	001	00010	Water Temperature	1/Day	1	0	03/04/2007
March 2007	001	50050	Flow Rate	1/Day	1	0	03/04/2007
March 2007	001	00400	pH	1/Day	1	0	03/04/2007
March 2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/04/2007
March 2007	001	00010	Water Temperature	1/Day	1	0	03/05/2007
March 2007	001	50050	Flow Rate	1/Day	1	0	03/05/2007
March 2007	001	00400	pH	1/Day	1	0	03/05/2007
March 2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/05/2007
March 2007	001	00010	Water Temperature	1/Day	1	0	03/06/2007
March 2007	001	50050	Flow Rate	1/Day	1	0	03/06/2007
March 2007	001	00400	pH	1/Day	1	0	03/06/2007
March 2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/06/2007
March 2007	001	00010	Water Temperature	1/Day	1	0	03/07/2007

March	2007	001	50050	Flow Rate	1/Day	1	0	03/07/2007
March	2007	001	00400	pH	1/Day	1	0	03/07/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/07/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/08/2007
March	2007	001	00530	Total Suspended Solids	2/Week	2	0	03/08/2007
March	2007	001	00610	Nitrogen, Ammonia (NH3)	2/Week	2	0	03/08/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/08/2007
March	2007	001	80082	CBOD 5 day	2/Week	2	0	03/08/2007
March	2007	001	00400	pH	1/Day	1	0	03/08/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/08/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/09/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/09/2007
March	2007	001	00400	pH	1/Day	1	0	03/09/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/09/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/10/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/10/2007
March	2007	001	00400	pH	1/Day	1	0	03/10/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/10/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/11/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/11/2007
March	2007	001	00400	pH	1/Day	1	0	03/11/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/11/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/12/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/12/2007
March	2007	001	00400	pH	1/Day	1	0	03/12/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/12/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/13/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/13/2007
March	2007	001	00400	pH	1/Day	1	0	03/13/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/13/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/14/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/14/2007
March	2007	001	00400	pH	1/Day	1	0	03/14/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/14/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/15/2007
March	2007	001	00530	Total Suspended Solids	2/Week	2	0	03/15/2007
March	2007	001	00610	Nitrogen, Ammonia (NH3)	2/Week	2	0	03/15/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/15/2007
March	2007	001	80082	CBOD 5 day	2/Week	2	0	03/15/2007
March	2007	001	00400	pH	1/Day	1	0	03/15/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/15/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/16/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/16/2007
March	2007	001	00400	pH	1/Day	1	0	03/16/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/16/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/17/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/17/2007
March	2007	001	00400	pH	1/Day	1	0	03/17/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/17/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/18/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/18/2007

March	2007	001	00400	pH	1/Day	1	0	03/18/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/18/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/19/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/19/2007
March	2007	001	00400	pH	1/Day	1	0	03/19/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/19/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/20/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/20/2007
March	2007	001	00400	pH	1/Day	1	0	03/20/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/20/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/21/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/21/2007
March	2007	001	00400	pH	1/Day	1	0	03/21/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/21/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/22/2007
March	2007	001	00530	Total Suspended Solids	2/Week	2	0	03/22/2007
March	2007	001	00610	Nitrogen, Ammonia (NH3	2/Week	2	0	03/22/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/22/2007
March	2007	001	80082	CBOD 5 day	2/Week	2	0	03/22/2007
March	2007	001	00400	pH	1/Day	1	0	03/22/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/22/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/23/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/23/2007
March	2007	001	00400	pH	1/Day	1	0	03/23/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/23/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/24/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/24/2007
March	2007	001	00400	pH	1/Day	1	0	03/24/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/24/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/25/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/25/2007
March	2007	001	00400	pH	1/Day	1	0	03/25/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/25/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/26/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/26/2007
March	2007	001	00400	pH	1/Day	1	0	03/26/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/26/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/27/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/27/2007
March	2007	001	00400	pH	1/Day	1	0	03/27/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/27/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/28/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/28/2007
March	2007	001	00400	pH	1/Day	1	0	03/28/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/28/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/29/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/29/2007
March	2007	001	00400	pH	1/Day	1	0	03/29/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/29/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/30/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/30/2007

March	2007	001	00400	pH	1/Day	1	0	03/30/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/30/2007
March	2007	001	00010	Water Temperature	1/Day	1	0	03/31/2007
March	2007	001	50050	Flow Rate	1/Day	1	0	03/31/2007
March	2007	001	00400	pH	1/Day	1	0	03/31/2007
March	2007	001	00300	Dissolved Oxygen	1/Day	1	0	03/31/2007
December	2007	581	51129	Sludge Fee Weight	1/Year	1	0	12/01/2007
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January	2008	001	00610	Nitrogen, Ammonia (NH3	2/Week	2	1	01/15/2008
January	2008	001	80082	CBOD 5 day	2/Week	2	1	01/15/2008
May	2008	001	31616	Fecal Coliform	2/Week	2	1	05/15/2008