



State of Ohio Environmental Protection Agency

Northeast District Office

2110 East Aurora Rd.
Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769
www.epa.state.oh.us

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

September 12, 2007

RE: WAYNE COUNTY
VILLAGE OF FREDERICKSBURG

Mr. Jerry Herman, Supervisor
Village of Fredericksburg
288 N. Mill Street
Fredericksburg, OH 44627

Dear Mr. Herman:

On September 5, 2007, this writer conducted a pre-permit inspection of the sewage treatment plant serving the Village of Fredericksburg. Below are our findings and recommendations from the inspection:

At the time of the inspection, the treatment plant effluent could not be located. However, the effluent from the ultraviolet disinfection appeared to be clear.

The wastewater system consists of flow equalization, extended aeration treatment, sludge holding, fixed media clarifier, slow surface sand filter, pump station and ultraviolet disinfection. The plant components appeared to be in good condition at the time of the inspection.

The flow equalization tank looked to be in good condition and there was good air circulation being provided within the tank. The mixed liquor in the aeration tank was chocolate brown in color and was being provided with good air circulation and good mixing with uniform roll. The sludge return lines were in operation and returning solids of a dark brown color. The clarifier weirs contained some solids and algae buildup. The skimmer did not contain any scum buildup and appeared to be in good condition.

The fixed media clarifier contained water that was somewhat clear and the media was stained an algae color. A portion of the media clarifier was covered by a tarp but this appeared to be an operational procedure. Since there was not an operator present at the inspection, the age of the media is not known. It is possible the media may need to be changed if it is the original media from the plant installation. The pump station located after the clarifier was in good condition.

The sand filters appeared to be working and were in good condition. Some solids buildup and vegetative growth was noticed on the media. It was noted that the distribution pipe design was with the effluent turned up instead of facing the media.

Mr. Jerry Herman
 Village of Fredericksburg
 September 13, 2007
 Page 2

This design is prone to freezing if water should become trapped in the pipe during the winter months. This office would advise you to take some precautions to prevent water backup in the pipe when there is not enough water to discharge from the pipe. A weep hole in the pipe would be sufficient to allow it to drain during low flow conditions. The ultraviolet disinfection appeared to be in good condition with the effluent looking clear.

Because there was no operator present during the inspection, the flow measurement method for this facility is not known. As a note, acceptable methods for measuring flow in order of preference are: 1) elapsed time meter on sand filter dosing pumps, 2) elapsed time meters on influent pumps, or 3) clean water use records. Please notify this office of which method the system will be utilizing.

The sludge holding tank was in good condition with good air circulation and contained solids that were a dark brown color. The sludge is removed and hauled for treatment to the Canton Wastewater Treatment Plant. Because an operator was not present during the inspection, the sludge removal frequency was not obtained. Please submit information to this office regarding your sludge wasting rates, sludge removal frequency and the contractor hired to perform the sludge removal.

A review of your monthly operating reports covering the period February 2003 through August 2007 revealed the following effluent violations:

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2003	001	80082	CBOD 5 day	30D Qty	2.3	2.81983	3/1/2003
March 2003	001	80082	CBOD 5 day	7D Qty	3.4	8.7812	3/15/2003
July 2007	001	80082	CBOD 5 day	7D Conc	15	20.	7/1/2007
August 2005	001	31616	Fecal Coliform	30D Conc	1000	1000.	8/1/2005
June 2007	001	31616	Fecal Coliform	30D Conc	1000	2600.	6/1/2007
June 2007	001	31616	Fecal Coliform	7D Conc	2000	2600.	6/8/2007
April 2003	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	5.	4/15/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	4.25	5/1/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	4.	5/1/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.23	.51949	5/1/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	.5299	5/1/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	4	5/8/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	.4542	5/8/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	5.	5/15/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	.62453	5/15/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	4.	5/22/2003
May 2003	001	00610	Nitrogen, Ammonia (NH3	7D Qty	0.34	.46934	5/22/2003
August 2004	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	2.92	8/15/2004

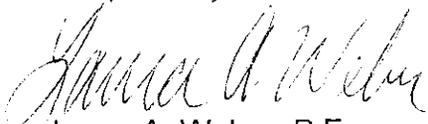
Mr. Jerry Herman
Village of Fredericksburg
September 13, 2007
Page 3

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2006	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	1.76	8/22/2006
June 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	2.5575	6/1/2007
June 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	9.53	6/1/2007
June 2007	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.23	.3038	6/1/2007
June 2007	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.34	1.15427	6/1/2007
March 2003	001	00530	Total Suspended Solids	30D Qty	2.7	3.4311	3/1/2003
March 2003	001	00530	Total Suspended Solids	7D Qty	4.1	10.9765	3/15/2003
July 2006	001	00530	Total Suspended Solids	30D Conc	12	16.75	7/1/2006
July 2006	001	00530	Total Suspended Solids	7D Conc	18	25.	7/8/2006
July 2006	001	00530	Total Suspended Solids	7D Conc	18	25.	7/15/2006
August 2006	001	00530	Total Suspended Solids	30D Conc	12	16.	8/1/2006
August 2006	001	00530	Total Suspended Solids	7D Conc	18	25.	8/15/2006
August 2006	001	00530	Total Suspended Solids	7D Conc	18	25.	8/22/2006

The existing National Pollutant Discharge Elimination System (NPDES) permit for this facility expires on January 31, 2008. The renewal NPDES permit for this facility is being drafted and will be public noticed in the near future. You will have 30 days from the date of the public notice to submit comments to Ohio EPA regarding the draft permit.

Overall, the results of the inspection were satisfactory. 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/mt

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

File: Public/Fredericksburg P/C