



Environmental
Protection Agency

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

Re: Sandusky County
Westwood Acres Subdivision
Sewerage

April 11, 2011

Mr. Steve Shiets
Sandusky County Sanitary Engineer
2100 Countryside Place
Fremont, Ohio 43420-9574

Dear Mr. Shiets:

On March 1, 2011, an inspection was made of the wastewater treatment facility which serves the Westwood Acres Subdivision. In addition to yourself, Mr. Tom Fry, operator of this facility and Mr. Clay Schwochow and Zack Mulder (intern), from your office, were also present. Observations and recommendations noted during the inspection are as follows:

1. It was indicated that higher than normal flows were being received at the plant as Northwest Ohio experienced heavy rains and rapid snow melt the previous day. (DMR reported flow of 0.1333 MGD on 2/28/11)
2. The plant was operating and had adequate aeration at the time of the inspection. It was indicated that the aeration was turned off for a few hours overnight during high flows, in an effort to prevent washout and retain solids in the plant.
3. The south sand filter was in use and observed to be overflowing onto the ground with overland flow to the ditch at the time of the inspection. In addition to the high flows, this filter appeared to have a layer of solids which could be restricting flow through the filter. It was also indicated that freezing conditions resulted in overflowing the filters during the winter. (pictures enclosed)
4. The north sand filter appeared to be clean and ready for use. During the inspection, it was recommended that this filter be put into service. However, the operator was concerned that switching from the overflowing filter to the north filter during the high flows, would result in plugging of that filter bed too.
5. The two sludge returns and surface skimmer were all operational.
6. Disinfection is required to be provided from May through October.
7. The integrated sludge holding tank is not being used. It was indicated that the common wall between the sludge holding and aeration tanks has deteriorated and been breached. An above ground 1,000 gallon poly storage tank, located next to the WWTP, was brought in for temporary sludge holding. The poly tank experiences winter freezing and is not acceptable for long term use.

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8. A review of the discharge monitoring report's flow data indicates that this facility's sewerage system experiences periodic high flows. High flows through the WWTP are often due to inflow and infiltration (I/I) of groundwater, snow melt, and/or rainwater during wet weather. Sources of I/I should be investigated and eliminated.

E-DMR – NOV

A review of your discharge monitoring reports (DMRs) has been conducted. A list of permit violations (04/2006 thru 02/2011) is enclosed.

Operator Log Requirements

Required record keeping and documentation at the facility must be implemented immediately. A log book must be developed to keep an up to date record for wastewater system operations and maintenance, which contains at a minimum, the following information:

- Identification of the sewerage system, or treatment works;
- date and times of arrival and departure for the operator of record;
- specific operation and maintenance activities that affect or have the potential to affect the quality or quantity of sewage received and/or effluent produced;
- results of tests performed and samples taken, unless documented on a laboratory bench sheet;
- performance of preventative maintenance and repairs or requests for repair of the equipment that affect or have the potential to affect the quality or quantity of sewage conveyed, effluent produced;
- and identification of the persons making entries.

The records must be kept up to date, contain a minimum of three months data at all times, and be maintained on site for at least three years.

OAC Chapter 3745-7-09: Operator Certification for Public Water Systems and Wastewater Treatment Works (copy enclosed) is available at: <http://www.epa.state.oh.us/ddagw/rules.aspx>

If there are any questions, please advise.

Yours truly,


Mary Beth Cohen
Division of Surface Water

/llr

pc: Sandusky County Commissioners
Sandusky County Health Department
DSW-NWDO-File

Westwood Acres Subdivision 2PG00023

Limit Violations (April 2006 thru February 2011)

| Reporting Period | Station | Reporting Code | Parameter | Limit Type | Limit | Reported Value | Violation Date |
|------------------|---------|----------------|------------------------|------------|-------|----------------|----------------|
| March 200 | 001 | 00530 | Total Suspended Solids | 30D Qty | 0.91 | 1.27184 | 3/1/2007 |
| March 200 | 001 | 00530 | Total Suspended Solids | 7D Qty | 1.4 | 3.60181 | 3/1/2007 |
| June 2006 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 4.7 | 6/1/2006 |
| March 200 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.4 | 3/6/2008 |
| June 2008 | 001 | 31616 | Fecal Coliform | 30D Conc | 1000 | 10000. | 6/1/2008 |
| June 2008 | 001 | 31616 | Fecal Coliform | 7D Conc | 2000 | 10000. | 6/15/2008 |
| June 2008 | 001 | 31616 | Fecal Coliform | 7D Conc | 2000 | 10000. | 6/22/2008 |
| June 2008 | 001 | 00300 | Dissolved Oxygen | 1D Conc | 5.0 | 3.5 | 6/5/2008 |

Frequency Violations (April 2006 thru February 2011)

| Reporting Period | Station | Reporting Code | Parameter | Sample Frequency | Expected | Reported | Violation Date |
|------------------|---------|----------------|------------|------------------|----------|----------|----------------|
| November | 001 | 50050 | Flow Rate | 1/Day | 1 | 0 | 11/27/2007 |
| November | 001 | 50050 | Flow Rate | 1/Day | 1 | 0 | 11/28/2007 |
| November | 001 | 50050 | Flow Rate | 1/Day | 1 | 0 | 11/29/2007 |
| November | 001 | 50050 | Flow Rate | 1/Day | 1 | 0 | 11/30/2007 |
| October 2 | 001 | 80082 | CBOD 5 day | 1/Month | 1 | 0 | 10/01/2007 |

Westwood Acres Subdivision WWTP
03/01/2011 Pictures taken by M.B.Cohen
South sand filter – overflowing walls

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Westwood Acres Subdivision WWTP
South sand filter – overflowing



Westwood Acres Subdivision WWTP
Sand filters

