



**Environmental
Protection Agency**

Teo Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

December 30, 2010

RE: Lake County
Madison Township
Stewart Lodge
NPDES Permit No. 3PR00332
Application No. OH0133132

Mr. John Dalsky, Administrator
Stewart Lodge
7774 Warner Drive
Madison, OH 44057

Dear Mr. Dalsky:

On December 29, 2010, this writer conducted a compliance evaluation inspection of the wastewater treatment plant (WWTP) that serves Stewart Lodge. The purpose of the inspection was to evaluate the WWTP's operation and maintenance condition, and to evaluate the facility's compliance with National Pollutant Discharge Elimination System (NPDES) permit effluent limits.

At the time of inspection, the effluent was of a satisfactory visual quality in that there was no evidence of solids, debris, oil or grease. The following observations were noted:

- The flow equalization was in operation. A significant amount of foam/suds was visible in the flow equalization tank. Be advised that the discharge of foam to waters of the state is a violation of Ohio Administrative Code 3745-01-04. In order to ensure that foam does not reach waters-of-the-state, the amount of detergents used at the facility should be reviewed.
- The aeration tank was in operation. The mixed liquor suspended solids was brown in color.
- The settling tank content was turbid. An excessive amount of sludge was on the surface of the tank, behind the baffles and in the effluent trough. An adjustment of sludge return rate or sludge wasting rate may be necessary.
- The west filter bed was ponded with sludge. The east filter bed was covered with snow. Once weather permits, any sludge, vegetation and solids laden sand must be removed and replaced with clean sand. Assurances must be made that 18 inches of Ohio EPA approved filter sand exist on both beds. Ohio EPA approved filter sand has a uniformity coefficient that does not exceed 3.0 and an effective size of 0.4 mm-1.0 mm. The sand must be raked and evenly distributed across the surface of the filter bed.
- The sludge holding tank contained sludge; however, it was not being aerated. The tank must be aerated as required by design (4 cfm per 1000 gallons of storage capacity.)

The above referenced items must be corrected immediately.

A review of the discharge monitoring reports (DMRs) covering the period of June 2009 through November 2010 revealed the following effluent limitation violations:

Mr. John Dalsky
Stewart Lodge
December 30, 2010
Page 2

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	4.62	8/1/2009
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.021	0.09758	8/1/2009
001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	4.62	8/6/2009
001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.032	0.09758	8/6/2009

The average daily design flow of the wastewater treatment plant continues to be reported on the discharge monitoring reports as the daily estimated flow. Acceptable methods for estimating daily flow at plants are, in order of preference: 1) elapsed time meters on sand filter dosing pumps; 2) elapsed time meters on influent pumps; 3) water use records.

Be advised that failure to comply with the effluent limitations or to satisfy the monitoring or reporting and compliance scheduling requirements of your NPDES permit may be cause for enforcement pursuant to Ohio Revised Code Chapter 6111.

The last entry in the Operation and Maintenance Manual is dated December 17, 2010. Pursuant to Ohio Administrative Code 3745-07-03, the operator of record must be physically present at the wastewater treatment plant at least 2 days per week, a minimum of one hour per week. The Operation and Maintenance Manual must state the activities performed by the operator of record and any other employee that performs work at the plant. Failure to maintain the manual is a violation of the Ohio Administrative Code.

Within 10 days of the date of this letter, you are required to notify this office, in writing, outlining the corrective action, either actual or proposed, that will be taken to eliminate the above highlighted deficiencies.

Should you have any questions regarding this letter, please contact the undersigned at (330) 963-1183.

Sincerely,



Marie Underwood, P.E.
Environmental Engineer
Division of Surface Water

MU/mt