



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

January 29, 2013

RE: GEAUGA COUNTY
RUSSELL
BROOKHILL LIMITED
THE HILLBROOK CLUB
NPDES# 3PR00509*AD

Mr. James Kaufman, President
Brookhill Limited
14800 Hillbrook Drive
Chagrin Falls, OH 44022

Dear Mr. Kaufman:

On January 10, 2013, this writer conducted an inspection of the sewage treatment plant serving the above referenced facility. The intent of the inspection was to assess the operations and maintenance of the treatment system and review compliance with the National Pollutant Discharge Elimination System (NPDES) permit. At the time of the inspection, this writer also conducted a limited scope site records inspection.

The site records inspection evaluated the facility's operations and maintenance records with respect to the terms and conditions of the facility's National Pollutant Discharge Elimination System (NPDES) permit and Ohio Administrative Code (OAC) Rule 3745-7-09. The inspection revealed that records required pursuant to OAC 3745-7-09(A) (3) are maintained at the facility as required by rule.

The site records were provided with log entries completed by the operator completing maintenance on the wastewater treatment plant (WWTP). The entries summarized the work completed and provided the operators initials. The entries were not provided with time slots for when the operator arrived and when the operator departed the WWTP. In addition, the operator signing the log book must be an ORC for the facility. Enclosed is an ORC form that each operator must complete to ensure they are added as ORC's for the facility.

NPDES PERMIT COMPLIANCE

According to the discharge monitoring report (DMR) data from January 1, 2010 through December 31, 2012, the flow reported averaged 3,161 gpd.

Discharge monitoring report data was reviewed for compliance with the current NPDES permit. A violation summary for the above noted review period is attached to this letter.

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
June 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	4.05	6/1/2011
June 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	4.05	6/22/2011
August 2011	001	80082	CBOD 5 day	30D Conc	10	13.9	8/1/2011

INSPECTION SUMMARY

Below are the findings and recommendations from the inspection:

At the time of the inspection, all components of the WWTP except disinfection were in operation. The trash trap appeared to be over half full. It is understood the trash trap was pumped out approximately 9 months ago. The aeration tank appeared to be in satisfactory condition. The contents of the tank were a lighter colored brown and some foam was present on the surface of the tank. The sludge return lines were in operation and the rollover within the tank was adequate. The air circulation to the tank appeared satisfactory. The clarifier contained some solids buildup at the influent baffle and on the effluent weir. The contents of the clarifier appeared somewhat cloudy at the time of the inspection. The dosing chamber was in satisfactory condition. The surface sand filters were in operation and the filter beds were clean. At the time of the inspection, this office inquired whether the media within the sand beds was Ohio EPA approved sand media. The media located in the beds appeared coarse. Ohio EPA filter sand requirements are the following: Filter sand shall be clean and washed with an effective size between 0.4-1.0 mm, with a uniformity coefficient not greater than 3.0.

The sand filter construction and media placement

Attached to this letter is a surface sand filter section view which is taken from the "Greenbook, Sewage: Collection, Treatment & Disposal Where Public Sewers Are Not Available". The sand filters must meet these construction and configuration requirements.

The disinfection system was not online at the time of the inspection as this is outside of disinfection season (May – October). The final effluent appeared clear and in satisfactory condition. The final outfall was in satisfactory condition and the receiving stream was clear.

SUMMARY

This office recommends you review the ORC on file for this facility and provide the requested updates. The log book must be completed by an ORC and the log book must record the in time and out time of the operator.

The sand filter media must meet all Ohio EPA sand media requirements. If the sand media does not meet all of the requirements, it must be replaced with approved media. Provide notification to this office no later than 10 days from the date of this letter regarding the status of the sand media in the filter beds.

If you have any questions or comments regarding this inspection, please feel free to contact me at (330) 963-1299.

Respectively,



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

LAW/cs

cc: Mr. Jeff Pekar, Facilities Manager, Brookhill Limited
Mr. Dave Sage, Geauga County Health Department

File: Geauga/Russell Twp/3PR00509