



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

March 12, 2013

RE: GEAUGA COUNTY
MUNSON TWP
BERKSHIRE HILLS CC
NPDES PERMIT 3PR00321

Ms. Marianne MacLean, Vice President
Berkshire Hills Country Club
P.O. Box 338
Chesterland, OH 44026

Dear Mr. Maclean:

On February 28, 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.

According to Agency records, an upgraded wastewater treatment system was installed under Ohio EPA PTI 02-16193, which was effective July 9, 2003. The wastewater treatment plant (WWTP) is permitted to discharge 5,000 gpd. The wastewater system includes a 1,000 gallon trash trap followed by a 7,549 gpd extended aeration plant and a 2,556 gallon flow equalization tank precedes the aeration tank. A 400 gallon dosing chamber precedes the surface sand filters (total surface area of 415 ft² equally divided into two beds). The system is served by a UV disinfection unit. The system also includes a 1,000 gallon aerated sludge holding tank and a 500 gallon scum holding tank. The pool backwash waters are collected in a holding tank and pumped into the sanitary sewer at a rate of 20 gpm.

Below are the findings and recommendations from the inspection:

NPDES PERMIT COMPLIANCE

The NPDES permit for this facility has an expiration date of October 31, 2013. NPDES permit renewal applications are required to be submitted at least 180 days before the expiration date of the permit.

According to the discharge monitoring report (DMR) data from January 1, 2011 through February 1, 2013, flow reported averaged 1,113.09 gpd. The discharge monitoring violations accrued during this review period are shown below:

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
January 2011	001	00515	Residue, Total Dissolv	1D Conc	1500	2752.	1/12/2011
June 2011	001	00515	Residue, Total Dissolv	1D Conc	1500	2727.	6/2/2011
July 2011	001	31616	Fecal Coliform	7D Conc	2000	2000.	7/8/2011

According to the NPDES permit, the wastewater treatment system is listed as a Class 1 Wastewater Treatment system. Our records indicate Mr. Dave Osborn is the certified operator of record (ORC) for this facility.

INSPECTION SUMMARY

Below are the findings and recommendations from the inspection:

Inspection revealed the WWTP was in operation and producing what appeared to be a satisfactory quality effluent.

The plant is served by two blowers, which were both in operation at the time of the inspection. The flow equalization tank was provided with a satisfactory amount of air. The extended aeration system was provided with a satisfactory amount of air with rollover noted within the tanks. The sludge return line was in operation but return line discharge was clear. A balanced WWTP with a good balance of solids should have a sludge return, which is dark brown. The clarifier appeared free of solids and the contents of the tank were somewhat murky. The visibility within the tank was limited. The skimmer was visible and the effluent weir contained minimal solids.

The dosing station was in satisfactory condition and properly dosing the surface sand filter. The surface sand filters appeared to be structurally in satisfactory condition. The media bed in use was flooded and the media was covered in leaves at the time of the inspection. The filter bed not in use was not flooded and was covered in leaves.

An extension cord was found running from an outlet at the UV treatment system and running alongside the filters and wrapped around the surface sand filter splitter box and appeared to be plugged in at the base of the splitter box. It is now known the purpose of this extension cord but it could pose a tripping and electrical hazard as the surface sand filters are flooded.

The UV unit was not in use as this is outside of disinfection season. The UV bulbs were still in the unit. The UV unit was covered with a thick layer of leaves and soil. The effluent from the WWTP appeared clear and the final effluent and receiving stream appeared to be in satisfactory condition.

The operator log book was located onsite and was reviewed at the time of the inspection. No deficiencies were noted.

SUMMARY

- 1) You must submit your NPDES renewal application no later than April 1, 2013. The renewal application must include Forms 1, 2E, 2S and the Antidegradation Addendum; along with an application fee of \$200 (check made payable to Treasurer Stat of Ohio).
- 2) Submit a response to this office summarizing the purpose of the extension cord running alongside the surface sand filters and also the operation and maintenance condition of the surface sand filters.

BERKSHIRE HILLS CC
MARCH 12, 2013
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Should you have any comments or questions regarding this letter, please contact this office at (330)963-1299.

Respectfully,



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

LAW/cs

cc: Dave Osborn, Operator

File: Geauga County Health Department, Att: Dave Sage