



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

June 11, 2013

RE: LORAIN COUNTY  
CARLISLE TOWNSHIP  
FOREST HILLS GOLF COURSE  
COMPLIANCE EVALUATION INSPECTION  
NPDES NO. 3PZ00055

Lorain County Metro Parks  
12882 Diagonal Road  
LaGrange, OH 44050  
ATTN: Jim Ziemnik

Dear Mr. Ziemnik:

A Compliance Evaluation Inspection (CEI) was conducted May 14, 2013, on the wastewater treatment plant (WWTP) serving the Forest Hills Golf Course. The inspection was conducted by this writer, and Mr. John Sabo of the Lorain County Health Department. The facility is located at 41971 Oberlin-Elyria Road, Carlisle Township, Lorain County.

The purpose of the inspection was to evaluate the operation and maintenance condition of the WWTP, as well as the facility's compliance with its National Pollutant Discharge Elimination System (NPDES) Permit effluent limits. Prior to this inspection, the most recent CEI conducted on the WWTP was on October 18, 2011.

At the time of the May 14<sup>th</sup> inspection, the following observations were made:

- 1) Contents of the trash trap were typical, and it was not in need of pumping.
- 2) Contents of the aeration tank were medium brown in color, and were well aerated. The return sludge line was operating, returning clear water to the aeration tank from the settling tank.
- 3) There were 2 blower/motors present for use with the aeration tank. One of two blower/motors was in operation, with the remaining unit on standby. The high air pressure relief valves were operational, and the air filters for the units were in an acceptable condition.
- 4) Contents of the settling tank were clear, with a slight amount of floating grease particles. The settling tank skimmer line was operating, but was adjusted too high above the water surface to return any water to the aeration tank.

The effluent trough in the settling tank was not level, with no flow exiting the settling tank at the time of the inspection. The west end of the effluent trough was wet, while the east end of the trough was dry.

- 5) Both pumps in the sand filter dosing station were set in the 'AUTO' mode, and operated when manually tested. Pump totalizers located in the pump station control panel are used for estimating daily wastewater flow rates.

The high water level alarm was tested for proper operation by manually tripping the high water level alarm float switch located within the dosing station.

- 6) The west cell of the surface sand filter was dosed when the pumps were manually tested. Both east and west sand filter cells contained dead vegetation, and the sand was raked level. The vegetative growth in the sand filters appeared to have been killed by weed killer.
- 7) Both of the chlorination / dechlorination tablet disinfection units are 2 tube units. One of the chlorination unit tablet tubes was missing, and no tube caps were present. Chlorine tablets within the one tube that was present were dissolved into one caked mass.

One of the tablet dechlorination unit tubes was missing, and the remaining tube was capped. Dechlorination tablets were present in the one tube which was present.

- 8) Effluent from the WWTP was clear and visually free of solids or foam.



A review of the WWTP operating data for the period since the last inspection (October 1, 2011, through May 1, 2013) was conducted prior to the inspection. The electronic Discharge Monitoring Report (eDMR) data for that period found the following NPDES Permit numeric effluent violations for the Forest Hills Golf Course:

**FOREST HILLS GOLF COURSE  
 NPDES PERMIT NO. 3PZ00055  
 NUMERIC EFFLUENT LIMIT VIOLATIONS  
 (OCT. 1, 2011 – MAY 1, 2013)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
December 2011	Chlorine, Total Residual	1D Conc	0.019	4.8	12/1/2011
March 2012	Total Suspended Solids	30D Conc	12	43.	3/1/2012
March 2012	Total Suspended Solids	7D Conc	18	43.	3/1/2012
March 2012	Chlorine, Total Residual	1D Conc	0.019	3.	3/1/2012
August 2012	Chlorine, Total Residual	1D Conc	0.019	20.	8/1/2012
December 2012	Chlorine, Total Residual	1D Conc	0.019	13.3	12/1/2012
March 2013	Chlorine, Total Residual	1D Conc	0.019	.22	3/1/2013

A review of the Ohio EPA Certified Operator of Record database lists Mr. Ryan Ondrey (Limited Class A Wastewater license) as the Operator of Record for this WWTP, as reported to Ohio EPA on January 22, 2008.

Items which need operation / maintenance attention are:

- 1) The return sludge line liquid should be brown in color, not clear. This may be an indication that solids short-circuiting is occurring in the settling tank. The sides of the settling tank should be scraped down on a regular basis, to ensure all solids are settling and available for return to the aeration tank.
- 2) The skimmer in the settling tank was adjusted too high, and as a result, no skimmed water was being returned to the aeration tank. The skimmer should be lowered to approximately ¼ inch below the water surface.
- 3) The effluent trough in the settling tank needs to be leveled, and any moss or algal growth removed from the trough.
- 4) Vegetative growth or solids in the surface sand filters should be removed regularly, and disposed of properly. Spraying of weed killer on any vegetation which grows on the sand filter is not an accepted method of vegetation control. Any vegetative growth, which may be present on the sand in the sand filter, should be raked or pulled out.
- 5) All tubes and caps should be present on the tablet chlorination and dechlorination units. The condition of the tablet chlorination unit may actually be contributing to the chlorine residual violations, even if the dechlorination tablets are present.

Large pieces of caked chlorine tablets could break off when disturbed, and create an excessive amount of chlorine residual in the effluent. If effluent sampling occurs subsequent to a disturbance of the chlorine unit, there may not be enough dechlorination chemical to eliminate the high chlorine residual caused by the sloughing of the chlorine tablets.

**Please correct the above itemized maintenance items, and inform this office in writing when the corrections have been made.** A follow-up confirmation inspection may be conducted by this office, or by Mr. Sabo. Proper operation and maintenance practices should continue to be implemented, which will enable the Forest Hills Golf Course WWTP to continuously meet its NPDES Permit effluent limits.

If there are questions or comments regarding the contents of this letter, please contact this office.

Respectfully,



Charles E. Allen  
Environmental Engineer  
Division of Surface Water

CEA/cs

Cc: John Sabo, Lorain County Health Department