



**Environmental  
Protection Agency**

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

February 16, 2012

RE: TRUMBULL COUNTY  
VIENNA TOWNSHIP  
BAKER ELEMENTARY SCHOOL  
WWTP INSPECTION  
NPDES PERMIT NO. 3PT00083

Mr. Lew Lowrey, Superintendent  
Matthews Local Schools  
Baker Elementary  
4429 Warren-Sharon Road  
Vienna, OH 44473

Dear Mr. Lowrey:

On February 9, 2012, a Compliance Evaluation Inspection (CEI) was conducted on the wastewater treatment plant (WWTP) serving the Baker Elementary School. The school is located at 4095 Sheridan Drive, Vienna Township. Present during the inspection were Mr. Joel Polonus, representing the school system, and Ms. Brianne Ciccone and this writer, of the Ohio EPA.

The purpose of the visit was to evaluate the WWTP operation and maintenance, as well as the facility's compliance with National Pollutant Discharge Elimination System (NPDES) Permit effluent limits and conditions, prior to renewal of the facility's NPDES permit to discharge. The last inspection conducted on the Baker Elementary School WWTP was on October 20, 2010.

At the time of the February 9<sup>th</sup> inspection, the following observations were made:

- 1) Contents of the trash trap were typical. The trash trap is pumped annually by Duke Sanitary, toward the end of summer, and prior to school opening up in the fall.
- 2) Contents of the flow equalization chamber were well aerated and turbid gray in color.
- 3) The extended aeration tank contents were lighter brown and well aerated. There was no foam present in the aeration tank, or odor present in the immediate vicinity. The return activated sludge (RAS) line was returning clear water from the settling tank.

One of three blower motors for the aeration tank was in use, with the remaining two being in standby mode. The air pressure relief valves on the air lines coming from the blowers were functioning properly.

- 4) Settling tank contents were typical, and the effluent trough was clean and free of solids. The skimmer was operating, returning clear water to the aeration tank. The skimmer was adjusted too high, however, and needs to be adjusted to approximately ¼" below the surface of the water.

- 5) Both of the sand filter dosing station pumps were set in the 'AUTO' mode, and when manually tested were operational. The high level alarm was also manually tested and performed satisfactorily.

Daily WWTP flows are reported using totalizer readings from pumps located in the dosing station.

- 6) The south sand filter cell was in use at the time of the inspection, and contained some vegetative growth and solids deposition. The north cell was not in use, and also contained a small amount of dried solids. Sand in both of the filter cells needs to be cleaned, and should be kept free of all solids and vegetative growth.

Repairs had been made to the southeast corner of the sand filter wall, which was identified as leaking in the last inspection. The broken dosing pipe in the north cell, which was observed in the last inspection, has also been replaced/repared.

- 7) Effluent disinfection is typically accomplished by tablet chlorination and dechlorination units located in the contact tank. The tablet chlorination / dechlorination units were not in use, as disinfection is not required from November 1<sup>st</sup> through April 30<sup>th</sup>.

The chlorination and dechlorination units are both two tube units, and both units contained all tubes and caps.

- 8) Effluent from the WWTP was very slightly turbid, and was being post-aerated prior to discharge.

- 9) The aerated sludge holding tank was full of rainwater, and was not being aerated.

A review of the electronic Discharge Monitoring Reports (eDMR's) submitted to the Ohio EPA for the Baker Elementary School WWTP, for the period of October 1, 2010 through February 1, 2012, found the following effluent numeric violations for the facility:

**MATTHEWS LOCAL SCHOOLS  
 BAKER ELEMENTARY  
 FINAL EFFLUENT NUMERIC VIOLATIONS  
 NPDES PERMIT NO. 3PT00083  
 (OCT. 1, 2010 THROUGH FEB. 1, 2012)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
December 2011	Nitrogen, Ammonia (NH3-N)	30D Conc	4.5	8.1	12/1/2011
December 2011	Nitrogen, Ammonia (NH3-N)	7D Conc	6.75	8.1	12/1/2011

\*\* No reporting frequency or code violations.

BAKER ELEMENTARY SCHOOL  
FEBRUARY 16, 2012  
PAGE 3 OF 3

Mr. Polonus indicated that required samples are collected and analyzed by Valley Environmental.

Matthews Local Schools should continue with all efforts that will enable the Baker Elementary School WWTP to consistently meet its NPDES Permit limits. Items indicated as needing to be maintained or repaired should be addressed as soon as possible. Please submit correspondence to this office when the repairs are completed.

If there are any 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: Trumbull County Health Dept.