



State of Ohio Environmental Protection Agency

Northeast District Office

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Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

March 19, 2008

RE: TRUMBULL COUNTY  
VIENNA TOWNSHIP  
BAKER ELEMENTARY SCHOOL  
WWTP INSPECTION  
(NPDES PERMIT 3PT00083)

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

**CERTIFIED MAIL**

Dear Mr. Seipel:

On March 6, 2008, a Compliance Evaluation Inspection (CEI) was conducted at the Baker Elementary School wastewater treatment plant (WWTP), located at 4095 Sheridan Drive, Vienna. Present during the inspection were Mr. Joel Polonus, representing the school system, and this writer, of Ohio EPA.

The purpose of the visit was to evaluate the WWTP operation and maintenance, as well the facility's compliance with NPDES Permit effluent limits and conditions.

At the time of the inspection the maintenance of the plant could be rated as satisfactory/marginal. The following observations were made:

- 1) The trash trap was in use and its contents were typical.
- 2) The flow equalization chamber was in use and the pumps were operating properly.
- 3) The extended aeration tank contents were a medium brown in color, with no foam present. The return activated sludge (RAS) line was operational, and contents of the aeration tank were well aerated.
- 4) Contents of the settling tank were typical, and the skimmer was properly adjusted and operating. The effluent trough was clean, and effluent from the settling tank was slightly turbid. There was a slight white foam in the surface of the settling tank contents.
- 5) Both pumps in the surface sand filter dosing station were operational when manually tested, as was the high level alarm. Daily flows to the WWTP are reported from totalizer readings for the pumps in the dosing station.
- 6) The surface sand filters consisted of 2 cells, of which the north cell was in use. The south cell was not in use, and the sand did contain some dried solids. The north cell had solids deposition and was ponded and partially frozen.
- 7) Effluent disinfection is accomplished by tablet chlorination and dechlorination units located in the contact tank. The chlorination / dechlorination units contained no tablets, as disinfection of the effluent is not required for the period of November 1<sup>st</sup> through April 30<sup>th</sup>.

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- 8) Effluent from the WWTP is post-aerated prior to being discharged.
- 9) Treated effluent from the WWTP is discharged to a swale/ditch and subsequently to an unnamed tributary of Squaw Creek. Effluent being discharged was clear and visually free of solids.
- 10) The aerated sludge holding tank was full and being aerated, and contents were medium brown in color.

A review of the Monthly Operating Reports (MOR's) submitted to Ohio EPA for the Baker Elementary School WWTP, for the period of December 1, 2005, through March 1, 2008, found the following effluent limit numeric violations for the facility:

**MATTHEWS LOCAL SCHOOLS  
BAKER ELEMENTARY  
FINAL EFFLUENT NUMERIC VIOLATIONS  
NPDES PERMIT NO. 3PT00083  
(Dec. 1, 2005 through March. 1, 2008)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
December 2005	Nitrogen, Ammonia (NH3-N)	30D Conc	4.5	4.59	12/1/2005
December 2005	Nitrogen, Ammonia (NH3-N)	7D Conc	6.75	7.58	12/1/2005
March 2006	Nitrogen, Ammonia (NH3-N)	30D Conc	4.5	6.8	3/1/2006
March 2006	Nitrogen, Ammonia (NH3-N)	7D Conc	6.75	6.8	3/1/2006
June 2006	Dissolved Oxygen	1D Conc	5.0	3.8	6/13/2006
June 2007	Nitrogen, Ammonia (NH3-N)	30D Conc	2.0	8.37	6/1/2007
June 2007	Nitrogen, Ammonia (NH3-N)	7D Conc	3.0	8.37	6/8/2007
June 2007	Dissolved Oxygen	1D Conc	5.0	3.2	6/12/2007

Matthews Local Schools should continue with all efforts that will enable the Baker Elementary School WWTP to consistently meet its NPDES Permit limits. Particular attention should be paid to determination of the cause of the nitrogen ammonia effluent violations, and implementation of any necessary corrective actions.

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/mt

cc: Trumbull County Health Dept.

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