



State of Ohio Environmental Protection Agency

Northeast District Office

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January 14, 2008

RE: TRUMBULL COUNTY
GREENE TOWNSHIP
MAPLEWOOD ELEMENTARY SCHOOL
WWTP INSPECTION
(NPDES PERMIT 3PT00071)

CERTIFIED MAIL

Mr. Perry D. Nicholas, Superintendent
Maplewood Local School District
2414 Greenville Road N.E.
Cortland, OH 44410

Dear Mr. Nicholas:

On January 8, 2009, a Compliance Evaluation Inspection (CEI) was conducted at the Maplewood Elementary School wastewater treatment plant (WWTP), 1699 Kinsman Road, Greene Township. Present during the inspection were Mr. John Brown, representing the school system, and this writer, of Ohio EPA.

The purpose of the visit was to evaluate the operation and maintenance of the sewage system, and to discuss the facility's compliance with its NPDES Permit effluent limits and conditions.

At the time of the January 8th inspection, operation and maintenance of the plant was satisfactory, and the following observations were made:

- 1) The trash trap was being utilized and contents were typical. Pumping of the trash trap is conducted approximately twice per year, on an as-needed basis.
- 2) The flow equalization chamber was being utilized, and the dosing pumps were operating properly.
- 3) Contents of the extended aeration tank were medium brown, exhibited no foam, and were being well aerated. The return activated sludge (RAS) line was returning brown liquid.
- 4) Settling tank contents were slightly turbid, and the skimmer was operational. Water being returned to the aeration tank was clear, and the settling tank effluent trough was clean and free of solids. The skimmer pipe was slightly cocked, and in need of leveling. Due to the time of day, flows were low and no effluent was seen in the effluent trough.
- 5) Both surface sand filter dosing pumps were set in the 'AUTO' mode, and were operational when tested manually. Flow readings reported for the WWTP are obtained using totalizer recorders for the pumps in the dosing station. The high level alarm was operational when manually checked.
- 6) The surface sand filters have 2 cells, of which the south cell was in use. The south cell had been recently dosed, and contained some standing water. Sand in the north cell was snow covered. Splash pads in both of the sand filters need to have proper support for the dosing pipes.

- 7) During the disinfection season, treated effluent is disinfected by tablet chlorination and dechlorination units located in the contact tank. Effluent disinfection is not required for the period of November 1st through April 30th. At the time of the inspection, the chlorination / dechlorination units contained no tablets, and all tubes were properly capped.
- 8) Treated effluent discharged from the Maplewood Elementary School WWTP enters Mosquito Creek Reservoir via roadside ditch. Effluent was clear and visually free of solids.
- 9) The aerated sludge holding tank contents were medium brown and being well aerated. When needed, A-1 Drain service hauls the liquid sludge to a larger WWTP for disposal.

A review of the electronic Discharge Monitoring Reports (eDMR) as reported to Ohio EPA for the Maplewood Elementary School WWTP, during the period of December 1, 2007 through November 30, 2008, found the following monitoring frequency violations for the facility:

**MAPLEWOOD ELEMENTARY SCHOOL
 FREQUENCY REPORTING VIOLATIONS
 NPDES PERMIT NO. 3PT00070
 (DEC. 1, 2007 – NOV. 30, 2008)**

Reporting Period	Parameter	Sample Frequency	Expected	Reported	Violation Date
December 2007	Total Suspended Solids	1/Quarter	1	0	12/01/2007
December 2007	Nitrogen, Ammonia (NH3-N)	1/Quarter	1	0	12/01/2007
December 2007	Fecal Coliform	1/Quarter	1	0	12/01/2007
December 2007	CBOD 5 day	1/Quarter	1	0	12/01/2007
December 2007	Chlorine, Total Residual	1/Quarter	1	0	12/01/2007
December 2007	pH	1/Quarter	1	0	12/01/2007
December 2007	Dissolved Oxygen	1/Quarter	1	0	12/01/2007
December 2007	Color, Severity	1/Week	1	0	12/22/2007
December 2007	Odor, Severity	1/Week	1	0	12/22/2007
December 2007	Turbidity, Severity	1/Week	1	0	12/22/2007
March 2008	Fecal Coliform	1/Quarter	1	0	03/01/2008
March 2008	Chlorine, Total Residual	1/Quarter	1	0	03/01/2008
August 2008	Total Suspended Solids	1/Quarter	1	0	08/01/2008
August 2008	Nitrogen, Ammonia (NH3-N)	1/Quarter	1	0	08/01/2008
August 2008	Fecal Coliform	1/Quarter	1	0	08/01/2008
August 2008	CBOD 5 day	1/Quarter	1	0	08/01/2008
August 2008	Chlorine, Total Residual	1/Quarter	1	0	08/01/2008
August 2008	pH	1/Quarter	1	0	08/01/2008
August 2008	Dissolved Oxygen	1/Quarter	1	0	08/01/2008

A review of the eDMRs for the same period also found the following numeric effluent violations for the Maplewood Elementary School:

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**MAPLEWOOD ELEMENTARY SCHOOL
NUMERIC EFFLUENT VIOLATIONS
NPDES PERMIT NO. 3PT00070
(DEC. 1, 2007 – NOV. 30, 2008)**

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2008	Nitrogen, Ammonia (NH3-N)	30D Conc	3.0	5.	3/1/2008
March 2008	Nitrogen, Ammonia (NH3-N)	7D Conc	4.5	5.	3/8/2008
June 2008	Fecal Coliform	30D Conc	1000	1150.	6/1/2008

Proper operation and maintenance practices which will enable the WWTP to continuously meet its NPDES Permit effluent limits should continue to be implemented.

A copy of this inspection report is being forwarded to the Trumbull County Health Department. If you have any comments or questions about this document, you may contact me at (330) 963-1110.

Respectfully,



Charles E. Allen
Environmental Engineer
Division of Surface Water

CEA/mt

cc: Trumbull County Health Dept.

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