



State of Ohio Environmental Protection Agency

Northeast District Office

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

August 12, 2009

RE: MEDINA COUNTY  
CHIPPEWA TOWNSHIP  
MEDINA SD 700  
(NPDES NO. 3PH00017)

Mr. Tracey Phelps, Supt. of Treatment  
Medina County Sanitary Engineers  
791 West Smith Road  
PO Box 542  
Medina, OH 44258

Dear Mr. Phelps:

On August 6, 2009, a Compliance Evaluation Inspection (CEI) was conducted at the Medina SD 700 (Chippewa Lake) wastewater treatment plant (WWTP), located at 5750 Kennard Road, in Chippewa Lake, Ohio. The purpose of the inspection was to evaluate the operation and maintenance of the facility, the effluent discharge quality, and the general compliance with the intent of the NPDES permit.

At the time of the August 6<sup>th</sup> inspection, the following observations were made:

- 1) Raw flow enters the WWTP at the grit tank. After settling, the grit is removed and is hauled to the BFI / Allied Wastes Services landfill, approximately once per week.
- 2) Flow then enters 4 aeration tanks, of which all were in operation. Contents of the aeration tanks were medium brown in color. The return activated sludge (RAS) lines were operational, and sludge being returned was also medium brown.
- 3) Polymer is added to the splitter box prior to the aeration tanks. Approximately 1½ (55 gallon) drums of polymer is added during a 24 hour period.
- 4) Following aeration, flow enters 2 final settling tanks. Contents of the settling tanks were typical, and settling tank effluent troughs were clean and free of solids or algae. The mechanical skimmer was operational.
- 5) Disinfection is accomplished with chlorine gas, and dechlorination of the chlorinated water is performed with liquid sodium bisulfite. Approximately 10-15 pounds per day of chlorine is utilized, and one 55 gallon drum of bisulfate is used every 7 to 10 days.

- 6) The treated effluent is post aerated prior to discharge. The effluent was visually clear, and free of solids and foam.
- 7) Sludge generated at the Medina SD 700 WWTP is hauled to the Medina SD 500 WWTP for treatment and disposal. Approximately 12,000 to 18,000 gallons per week of 1.5 – 2% solids sludge is hauled by Agri-Sludge to the SD 500 WWTP.
- 8) There are two 18,000 gallon capacity aerated sludge holding tanks at the WWTP, which are used for sludge holding until hauled to the Medina 500 plant.
- 9) There is a 1 million gallon storm water above-ground storage tank at the WWTP for use when flows exceed plant capacity due to precipitation events. The tank does occasionally fill completely, and has in the past overflowed onto the WWTP grounds. Any such event is reported to the Ohio EPA spill hotline, and reported in monthly reports.
- 10) Dissolved Oxygen, temperature, and pH measurements are conducted by plant personnel. All other samples are analyzed by the Medina SD 500 WWTP lab. It is noted that the scale used in the SD 700 lab sits on the lab bench, and not on an individual marble table, as in standard practice. Measurements could be subject to movement when on the current table.
- 11) There is a backup generator located on site, for use in power outages. The generator is operated once per week for approximately one half hour.
- 12) There are 4 full time employees at the Medina SD 700 WWTP. Employees work 8 a.m. till 4 p.m. Monday through Friday, and 7 a.m. through 3 p.m. on the weekends.
- 13) Average daily flows seen at the WWTP range from 0.480 to 0.500 MGD, while average wet weather flows to the WWTP may increase up to 0.700 MGD. Wastewater flows are measured at the end of the WWTP process utilizing a Parshall flume.
- 14) Final effluent samples are collected by an automatic composite sampler. At the time of the inspection the sampler was unlocked, and unprotected from potential public disturbance. Please note that the sampler needs to be either locked, or physically protected from intrusion, in order to certify the collected samples are representative of the effluent being discharged.

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A review of the electronic Discharge Monitoring Reports (eDMR's) submitted for the Medina SD 700 WWTP for the period of August 1, 2008 through August 1, 2009, found the following final effluent limit numeric violations:

**Medina SD 700  
NPDES Permit No. 3PH00017  
(August 1, 2008 – August 1, 2009)  
Numeric Effluent Violations**

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
February 2009	001	Total Suspended Solids	7D Qty	76.2	108.765	2/8/2009
February 2009	001	CBOD 5 day	7D Qty	49.7	60.5993	2/8/2009

Medina County should continue current operation and maintenance practices, which allow the SD 700 WWTP to consistently meet its NPDES Permit limits.

If you have any comments or questions regarding this correspondence, you may contact me at (330) 963-1110.

Respectfully,



Charles E. Allen  
Environmental Engineer  
Division of Surface Water

CEA/mt

File: Public/MedinaCounty SD 700/P&C