



State of Ohio Environmental Protection Agency

Northeast District Office

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

September 21, 2009

RE: LORAIN COUNTY
BRENTWOOD LAKE WWTP
NPDES NO. 3PH00024

Lorain County Commissioners
Administration Building
216 Middle Avenue
Elyria, OH 44035

Dear Commissioners:

On September 10, 2009, a Compliance Evaluation Inspection (CEI) was conducted on the Brentwood Lake Wastewater Treatment Plant (WWTP). Present during the inspection were Messrs. Steve Canfield and Nick Webber, of the Lorain County Sanitary Engineer's Office; Mr. John Sabo of the Lorain County Health Department; and this writer, of Ohio EPA. The inspection was conducted to evaluate the present operation and maintenance conditions at the WWTP, and to evaluate its compliance with the terms and conditions of its NPDES permit.

At the time of the September 10th inspection, the following observations were made:

- 1) The comminutor (Muffin Monster) was operating.
- 2) The extended aeration tank was being well aerated, the contents were medium brown, suspended solids (MLSS) content appeared to be at a high concentration, and no odors were present.
- 3) The settling tank contents were typical, and the sludge scrapers were operating. The effluent trough was clean and free of solids or algae, and effluent from the settling tank was clear and free of solids.
- 4) The return sludge line was operating and returning medium brown water, and the skimmer line from the settling tank was operating and returning clear water.
- 5) Tertiary filtration is accomplished by two drum filters, which were operational.
- 6) Final effluent is disinfected with approximately 4 to 5 lbs/day of chlorine gas, and dechlorination is accomplished with sodium bisulfite.
- 7) The effluent is post aerated prior to discharge, and the effluent was clear, colorless, and free of foam or solids.

- 8) The aerated sludge holding tank was approximately ½ full of medium brown sludge, and exhibited no odor.
- 9) A standby generator is located on site.

The last Compliance Evaluation Inspection (CEI) conducted at the Brentwood Lake WWTP was on September 3, 2008. Since the last CEI, the Brentwood Lake WWTP has reported the following NPDES Permit effluent violations in their monthly electronic Discharge Monitoring Reports (eDMR):

**BRENTWOOD LAKE WWTP
NPDES PERMIT NO. 3PH00024
EFFLUENT LIMIT VIOLATIONS
(9/1/08 – 9/1/09)**

| Reporting Period | Parameter | Limit Type | Limit | Reported Value | Violation Date |
|------------------|------------------------|------------|-------|----------------|----------------|
| November 2008 | Total Suspended Solids | 7D Conc | 18 | 18.5 | 11/22/2008 |
| February 2009 | Total Suspended Solids | 7D Conc | 18 | 23.05 | 2/8/2009 |
| February 2009 | Total Suspended Solids | 7D Qty | 13.6 | 19.5861 | 2/8/2009 |
| March 2009 | Total Suspended Solids | 7D Qty | 13.6 | 14.6528 | 3/8/2009 |
| July 2009 | Total Suspended Solids | 30D Conc | 12 | 14.2111 | 7/1/2009 |
| July 2009 | Total Suspended Solids | 7D Conc | 18 | 55.55 | 7/22/2009 |
| July 2009 | Total Suspended Solids | 7D Qty | 13.6 | 31.7273 | 7/22/2009 |

The County should continue with all efforts that will enable the Brentwood Lake WWTP to consistently meet its NPDES Permit limits. Please submit a report to this office detailing the reasons for the effluent numeric and frequency reporting violations.

If there are any comments or questions concerning this document, you may contact me at (330) 963-1110.

Respectfully,



Charles E. Allen
Environmental Engineer
Division of Surface Water

CEA/mt

File: MUNI/Lorain/BrentwoodLake P&C