

**Environmental
Protection Agency**

**Governor
Lt. Governor
Director**

August 30, 2011

RE: LAKE COUNTY
KIRTLAND
KIRTLAND SHOPPING CENTER
NPDES PERMIT # 3PR00152
APPLICATION NO. OH0103101

Mr. Charles Andrews
35110 Euclid Avenue
Willoughby, OH 44094

Dear Mr. Andrews:

On August 26, 2011, a compliance evaluation inspection of the sewage treatment plant serving the Kirtland Shopping Center was conducted by this office. The purpose of the inspection was to evaluate the facility's compliance status with respect to the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) permit.

At the time of inspection the plant was not operating, providing no treatment to the raw sewage generated at the shopping center. You were notified and stated that you would look into the matter. Later that day, you telephoned this writer, stating that the plant was now operating. An electrical problem had caused the plant to shut off.

Be advised that failure to maintain and operate your wastewater treatment plant is a violation of the requirements of your NPDES permit that may be subject to enforcement action.

A follow-up inspection was conducted on August 29, 2011. The plant was producing a clear effluent containing no visual evidence of solids, debris, or oil and grease. The following observations were noted:

- The aeration plant was in operation. The aeration tank mixed liquor was dark brown, as was the return sludge line discharge. The sludge wasting rate may need to be adjusted. The return sludge line and skimmer line were in operation.
- The settling tank content was turbid. Sludge was evident on the water surface of the tank.
- The north filter bed contained some sludge and vegetation on its surface. The south filter bed had leaves on its surface and was not in use. Any sludge, sludge laden sand, leaves or vegetation must be removed and replaced with clean Ohio EPA approved sand. Assurances must be made that 18 inches of Ohio EPA approved filter sand exists on the beds. Ohio EPA approved filter sand has a uniformity coefficient that does not exceed 3.0 and an effective size of 0.4 mm - 1.0 mm. The sand must be raked and evenly distributed across the surface of the filter bed.

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- The chlorinator contained chlorine tablets as required; however, the chlorinator contained more tablets than needed. The chlorinator should contain only a few tablets at a time to ensure flow through the device and to ensure the tablets don't get too soft and turn mushy, thus potentially blocking flow through the unit.
- The de-chlorinator contained sulfite tablets as required; however, the de-chlorinator contained more tablets than needed. The de-chlorinator should contain only a few tablets at a time to ensure flow through the device and to ensure the tablets don't get too soft and mushy, thus potentially blocking flow through the unit.

A review of the monthly operating reports covering July 2010 through July 2011 revealed the following effluent limitation violation:

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	50060	Chlorine, Total Residual	1D Conc	0.019	1.05	6/2/2011

Please be advised that failure to comply with the effluent limitations or to satisfy the monitoring or reporting requirements of your NPDES permit may be cause for enforcement pursuant to the Ohio Revised Code Chapter 6111.

Also, this district office received written notification from Mr. Al Saari, Lake County Sanitary Engineer, that the public sanitary sewer is operational and available for connection, effective June 2, 2011. This office will be sending letters in September 2011 to the business owners on Chillicothe Road requiring connection to the public sanitary sewer and demolition of their on-site sewage system. Once connection to the public sanitary sewer is completed and the on-site sewage system is demolished, the NPDES permit will be revoked.

Within 10 days of the date of this letter, you are required to notify this office, in writing, outlining the corrective action, either actual or proposed, that will be taken to eliminate the above highlighted deficiencies.

Should you have any questions, please contact the undersigned at (330) 963-1183.

Sincerely,



Marie Underwood, P.E.
Environmental Engineer
Division of Surface Water

MU/mt