



**Environmental  
Protection Agency**

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

July 27, 2012

**RE: LORAIN COUNTY  
CARLISLE TOWNSHIP  
BUTTERNUT RIDGE APARTMENTS  
JED PROPERTIES  
(38973 BUTTERNUT RIDGE RD.)  
(PERMIT NO. 3PW00033)**

James Dixon  
JED Investments  
30400 Wolf Road  
Bay Village, OH 44140

Dear Mr. Dixon:

A Compliance Evaluation Inspection (CEI) was conducted June 26, 2012, on the wastewater treatment plant (WWTP) serving the Butternut Ridge (JED Properties) Apartments. The inspection was conducted by this writer, and Mr. John Sabo of the Lorain County Health Department. It is noted The Butternut Ridge Apartments are located at 38973 Butternut Ridge Road, Carlisle Township, Lorain County.

The purpose of the inspection was to evaluate the WWTP's operation and maintenance condition, and to evaluate the facility's compliance with the terms and conditions of its NPDES Permit to discharge. The last CEI conducted on the Butternut Ridge (JED Properties) Apartments WWTP was on March 1, 2011.

At the time of the June 26<sup>th</sup> inspection, the following observations were made:

- 1) Contents of the trash trap were typical, and did not need pumping.
- 2) Contents of the aeration tank were well aerated, and were light brown in color. There was no odor in the area of the WWTP, and no foam was present on the surface of the tank contents. The return sludge line was operating, returning clear water from the settling tank.
- 3) Operation of the two aeration tank blowers/motors was checked. One blower/motor was in use, and the second was not operating. The second blower/motor was missing a drive belt.
- 4) The settling tank contained a buildup of solids behind the inlet baffle, and had a floating scum layer on the surface of the water. There was a slight deposition of solids in the settling tank effluent trough, but the effluent was clear.
- 5) Both pumps in the sand filter dosing station were set to the 'AUTO' mode, and were operational when manually tested. The high level alarm light was also operational when manually tested.

- 6) The west cell of the surface sand filters was being dosed, while the east cell was off-line. Sand in both filter cells was free of solids or vegetation. Sand in both cells needed to be raked level.
- 7) The disinfection tank contained both a tablet chlorination, and tablet dechlorination unit. Both are two tube units; both units contained some tablets, and one of the chlorine unit tubes was missing a tube cap.

A review of the operating data submitted for the Butternut Ridge (JED Properties) Apartments WWTP was conducted prior to the inspection. The electronic Discharge Monitoring Report (eDMR) data search covered the period of March 1, 2011, through July 1, 2012. Results of the search found the following numeric effluent violations for the period:

***Butternut Ridge (JED Properties) Apartments  
 NPDES Permit No. 3PW00033  
 Numeric Effluent Violations  
 (Mar. 1, 2011 – July 1, 2012)***

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2011	Total Suspended Solids	30D Conc	12	29.	3/1/2011
March 2011	Nitrogen, Ammonia (NH3-N)	30D Conc	3.0	18.	3/1/2011
March 2011	CBOD 5 day	30D Conc	10	12.	3/1/2011
March 2011	Dissolved Oxygen	1D Conc	6.0	5.2	3/30/2011
August 2011	Nitrogen, Ammonia (NH3-N)	30D Conc	1.0	1.3	8/1/2011
December 2011	Nitrogen, Ammonia (NH3-N)	30D Conc	3.0	5.25	12/1/2011
December 2011	Nitrogen, Ammonia (NH3-N)	7D Conc	4.5	5.25	12/22/2011
June 2012	E. coli	30D Conc	161	735.	6/1/2012

\*\*There were no reporting code or frequency violations for the period searched.

Based upon the results of the June 26<sup>th</sup> inspection of the Butternut Ridge (JED Properties) Apartments WWTP, the following items need to be addressed:

- 1) Replace the missing drive belt on the blower/motor for the aeration tank, and check for proper operation.
- 2) Remove the scum/solids behind the inlet baffle in the settling tank, and remove any solids in the settling tank effluent trough. Scrape down the sides of the settling tank walls to ensure no solids are adhering to them, which can potentially cause short-circuiting of the solids in the settling tank.
- 3) Keep the sand in the surface sand filters raked level and free of solids.
- 4) Replace the missing tube cap on the tablet chlorination unit.

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- 5) Please provide this office with the name of the licensed Class I operator in charge of the WWTP.

Please respond to this correspondence, in writing within 14 days of its receipt, and indicate the actions which will be taken to satisfy the above-outlined items.

If there are questions or comments regarding the contents of this letter, please contact this office.

Respectfully,



Charles E. Allen  
Environmental Engineer  
Division of Surface Water

CEA/cl

cc: John Sabo, Lorain County Health Department