



**Environmental  
Protection Agency**

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

South Twp.  
Cheney Co.  
Semi-Public

March 25, 2011

RE: TECUMSEH MHP  
NPDES PERMIT NO. 3PV00023  
FFY 2011 CEI

**NOTICE OF VIOLATION**

**CERTIFIED MAIL**

Mr. Joseph Raineri, Owner  
Tecumseh Village Mobile Home Park  
1005 Lake Park Blvd., Lot 96  
Sebring, OH 44672

Mr. Raineri:

On March 15, 2011, this writer conducted an inspection of the Tecumseh MHP wastewater treatment system. The intent of the inspection was to monitor the condition of the system and to evaluate compliance with requirements of the NPDES Permit.

**Observations**

Following are observations made during this most recent inspection.

1. The contents of the aeration tank and the return sludge were dark brown. Aeration in the tank provided good mixing of the contents.
2. There was a significant amount of cream-colored foam on the surface of the aerations tank. This could be an indicator of an imbalance in the microbial populations within the system.
3. Only one blower was operational at the time of the inspection. The south blower was operational; but, the north blower did not have the necessary belt between the blower and the motor.
4. The area behind the influent baffle was full of scum and debris. The area should be primarily free of such material.
5. There was a significant amount of sludge surrounding the effluent baffle. This indicates that possibly the clarifier has not been properly maintained by scraping the sides of the hopper. The floating clumps of sludge could indicate other problems with the system such as return lines previously plugged and possibly the need to remove sludge from the system.
6. Both baffles in the clarifier are significantly corroded. Both need to be replaced with new baffles.

7. The effluent weir in the clarifier is significantly corroded. The serrated weir plates that attach to the trough no longer exist. A new weir trough with adjustable, serrated plates must be manufactured and properly installed to improve hydraulics within the system.
8. The flow meter is in a building that is inaccessible. The building also contains rapid sand filters that cannot be inspected because of the condition of the building. The condition of the building is unacceptable. In previous inspections, it has been questionable whether the filters are operational. Significant debris surrounding the filters and the unsafe condition of the building preventing adequate maintenance of the filters makes it reasonable to speculate that the filters are not able to function properly.
9. The system has no disinfection system capable of providing adequate removal of pathogens from wastewater prior to discharge.

#### Compliance Review

The compliance record for the wastewater treatment plant was reviewed for compliance with the NPDES Permit. The period of review was January 2010 through February 2011. Following are violations reported during the review period.

Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
March 2010	Dissolved Oxygen	1D Conc	6.0	5.6	3/24/2010
April 2010	Dissolved Oxygen	1D Conc	6.0	5.4	4/7/2010
April 2010	Dissolved Oxygen	1D Conc	6.0	5.7	4/14/2010
April 2010	Dissolved Oxygen	1D Conc	6.0	4.5	4/21/2010
April 2010	Dissolved Oxygen	1D Conc	6.0	5.6	4/28/2010
May 2010	Fecal Coliform	30D Conc	1000	5000.	5/1/2010
May 2010	Fecal Coliform	1D Conc	2000	5000.	5/5/2010
May 2010	Dissolved Oxygen	1D Conc	6.0	4.	5/12/2010
May 2010	Dissolved Oxygen	1D Conc	6.0	4.6	5/19/2010
May 2010	Dissolved Oxygen	1D Conc	6.0	5.8	5/26/2010
June 2010	Dissolved Oxygen	1D Conc	6.0	5.3	6/23/2010
July 2010	Fecal Coliform	30D Conc	1000	9800.	7/1/2010
July 2010	Fecal Coliform	1D Conc	2000	9800.	7/7/2010
July 2010	Dissolved Oxygen	1D Conc	6.0	5.5	7/7/2010
July 2010	Dissolved Oxygen	1D Conc	6.0	5.6	7/21/2010
July 2010	Dissolved Oxygen	1D Conc	6.0	5.3	7/28/2010
August 2010	Fecal Coliform	30D Conc	1000	84000.	8/1/2010
August 2010	Fecal Coliform	1D Conc	2000	84000.	8/4/2010
August 2010	Dissolved Oxygen	1D Conc	6.0	4.9	8/25/2010

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Reporting Period	Parameter	Limit Type	Limit	Reported Value	Violation Date
September 2010	Dissolved Oxygen	1D Conc	6.0	4.7	9/1/2010
September 2010	Nitrogen, Ammonia (NH3	1D Conc	1.5	10.4	9/1/2010
September 2010	Nitrogen, Ammonia (NH3	30D Conc	1.0	10.4	9/1/2010
September 2010	Nitrogen, Ammonia (NH3	1D Qty	0.07	.35428	9/1/2010
September 2010	Nitrogen, Ammonia (NH3	30D Qty	0.05	.35428	9/1/2010
September 2010	Dissolved Oxygen	1D Conc	6.0	4.8	9/8/2010
October 2010	Nitrogen, Ammonia (NH3	30D Conc	1.0	11.75	10/1/2010
October 2010	Nitrogen, Ammonia (NH3	30D Qty	0.05	.40026	10/1/2010
October 2010	Fecal Coliform	30D Conc	1000	1180.	10/1/2010
October 2010	Nitrogen, Ammonia (NH3	1D Conc	1.5	11.75	10/6/2010
October 2010	Nitrogen, Ammonia (NH3	1D Qty	0.07	.40026	10/6/2010
October 2010	Dissolved Oxygen	1D Conc	6.0	4.5	10/6/2010
October 2010	Dissolved Oxygen	1D Conc	6.0	4.9	10/13/2010
October 2010	Dissolved Oxygen	1D Conc	6.0	5.3	10/20/2010
November 2010	Dissolved Oxygen	1D Conc	6.0	5.4	11/10/2010
December 2010	Dissolved Oxygen	1D Conc	6.0	5.9	12/1/2010
January 2011	Nitrogen, Ammonia (NH3	30D Conc	3.0	18.1	1/1/2011
January 2011	Nitrogen, Ammonia (NH3	30D Qty	0.14	.61658	1/1/2011
January 2011	Dissolved Oxygen	1D Conc	6.0	5.4	1/5/2011
January 2011	Dissolved Oxygen	1D Conc	6.0	5.3	1/12/2011
January 2011	Nitrogen, Ammonia (NH3	1D Conc	4.5	18.1	1/19/2011
January 2011	Nitrogen, Ammonia (NH3	1D Qty	0.21	.61658	1/19/2011
January 2011	Dissolved Oxygen	1D Conc	6.0	5.7	1/19/2011
January 2011	Dissolved Oxygen	1D Conc	6.0	5.8	1/26/2011
February 2011	Dissolved Oxygen	1D Conc	6.0	5.	2/16/2011

Be advised that the violations stated above constitute violations of Ohio Revised Code (R.C.) 6111.07. The Tecumseh MPH is also in noncompliance of Part 3, Item 3 of the NPDES Permit for failing to maintain the treatment system.

Necessary Actions

Actions that must be taken to correct problems are as follows.

1. The microbe population in the aeration tank must be evaluated to determine the cause of the foam on the surface of the tank. The cause of the foaming must be determined and eliminated to prevent additional problems in the system such as poorly settling sludge.

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2. The second blower must be immediately repaired, and two operating blowers must be available at all time. Critical spare parts must be kept on-site at all times to make quick repairs.
3. The area behind the influent baffle must be immediately cleaned of scum and debris. The area should be checked daily and be kept free of scum and debris.
4. The system must be checked to determine the cause of the sludge surrounding the effluent weir. The area behind the effluent baffle must be kept free of sludge at all times.
5. Both baffles in the clarifier must be replaced with new steel baffles. The effluent trough and the adjustable, serrated weir plates must be properly replaced and leveled.
6. The building housing the flow meter and the rapid sand filters must be replaced with a new building. The flow meter must be kept operational at all times. The rapid sand filters must be repaired as necessary and be operational at all times. The new building must be configured to permit total access to the flow meter and rapid sand filters for inspections.
7. A new disinfection system must be immediately installed. The system must be capable of adequately disinfecting the wastewater prior to discharge.
8. A permit-to-Install application for any upgrades to the system must be submitted to this office in accordance with Ohio Administrative Code 3745-42. At a minimum, an application that includes the new building and the disinfection system must be submitted to this office for approval prior to installation.

You may contact this writer at (330) 963-1251 or at [john.kwolek@epa.state.oh.us](mailto:john.kwolek@epa.state.oh.us) to discuss any questions you may regarding this inspection report.

Respectfully,



John Kwolek  
District Engineer  
Division of Surface Water

JK/mt

cc: John Halas, Mahoning County Department of Health

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