



State of Ohio Environmental Protection Agency

Northeast District Office

2110 East Aurora Rd.
Twinsburg, Ohio 44087

TELE: (330) 963-1200 FAX: (330) 487-0769
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Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

January 23, 2008

RE: LAKE COUNTY
KIRTLAND
KIRTLAND CITY TAVERN
NPDES PERMIT NO. OH0128767
OEPA PERMIT NO. 3PR00238

Ms. Deborah Loughner
Kirtland City Tavern
10015 Chillicothe Road
Kirtland, OH 44094

Dear Ms. Loughner:

On January 8, 2008, an operation and maintenance inspection of the sewage treatment plant serving the Kirtland City Tavern was conducted by this office. The existing treatment plant consists of a grease trap, followed by an extended aeration tank and settling tank. The average daily design flow of the plant is 2,100 gallons per day (gpd).

At the time of the inspection, the plant was operational. The following observations were noted:

1. The color of the aeration tank wastewater was light brown, indicating a low mixed liquor suspended solids content. The return sludge line discharge was also light brown in color. The skimmer return line had no discharge. The aeration tank roll was satisfactory.
2. A sludge blanket was not visible. Both the skimmer and the effluent trough were situated above the tank water level. Sludge was visible around the settling tank effluent weir.
3. A discharge from the wastewater treatment plant was not visible.

The NPDES permit for this facility required the upgrading of the existing plant by December 1, 2000. Specifically, the permit-to-install (PTI) required the installation of flow equalization, a dosing chamber, surface sand filter, chlorination, dechlorination and post aeration. To date, the required upgrades have not occurred.

The NPDES permit for this facility expired May 31, 2005. This office received an NPDES permit application on February 22, 2005.

A review of the Monthly Operating Reports reveals the following effluent limitation violations for the period covering April 2005 through November 2007:

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Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	00530	Total Suspended Solids	7D Conc	18	22.	6/15/2007
001	00530	Total Suspended Solids	7D Qty	0.14	.17487	6/15/2007
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	2.45	6/15/2007
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.01	.01947	6/15/2007
001	00530	Total Suspended Solids	30D Conc	12	22.	6/1/2007
001	00530	Total Suspended Solids	30D Qty	0.10	.17487	6/1/2007
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	2.45	6/1/2007
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.01	.01947	6/1/2007
001	00530	Total Suspended Solids	30D Conc	12	28.	12/1/2006
001	00530	Total Suspended Solids	7D Conc	18	28.	12/1/2006
001	00530	Total Suspended Solids	30D Qty	0.10	.22256	12/1/2006
001	00530	Total Suspended Solids	7D Qty	0.14	.22256	12/1/2006
001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	10.92	12/1/2006
001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	10.92	12/1/2006
001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.02	.0868	12/1/2006
001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.04	.0868	12/1/2006
001	80082	CBOD 5 day	30D Conc	10	19.	12/1/2006
001	80082	CBOD 5 day	7D Conc	15	19.	12/1/2006
001	80082	CBOD 5 day	30D Qty	0.08	.15102	12/1/2006
001	80082	CBOD 5 day	7D Qty	0.12	.15102	12/1/2006
001	00530	Total Suspended Solids	7D Conc	18	23.	6/15/2006
001	00530	Total Suspended Solids	7D Qty	0.14	.18282	6/15/2006
001	00530	Total Suspended Solids	30D Conc	12	23.	6/1/2006
001	00530	Total Suspended Solids	30D Qty	0.10	.18282	6/1/2006
001	00530	Total Suspended Solids	30D Conc	12	93.	3/1/2006
001	00530	Total Suspended Solids	7D Conc	18	93.	3/1/2006
001	00530	Total Suspended Solids	30D Qty	0.10	.73921	3/1/2006
001	00530	Total Suspended Solids	7D Qty	0.14	.73921	3/1/2006
001	80082	CBOD 5 day	30D Conc	10	15.	3/1/2006
001	80082	CBOD 5 day	30D Qty	0.08	.11923	3/1/2006
001	00530	Total Suspended Solids	7D Conc	18	22.	8/8/2005
001	00530	Total Suspended Solids	7D Qty	0.14	.17487	8/8/2005
001	00530	Total Suspended Solids	30D Conc	12	22.	8/1/2005
001	00530	Total Suspended Solids	30D Qty	0.10	.17487	8/1/2005
001	00530	Total Suspended Solids	30D Conc	12	19.	6/1/2005
001	00530	Total Suspended Solids	7D Conc	18	19.	6/1/2005
001	00530	Total Suspended Solids	30D Qty	0.10	.15102	6/1/2005
001	00530	Total Suspended Solids	7D Qty	0.14	.15102	6/1/2005

The following frequency violation for the same period was revealed:

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Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
May 2005	001	00083	Color, Severity	1/Week	1	0	05/22/2005

Also, the average daily design flow of the wastewater treatment plant (2,100 gpd) has been reported for the plant discharge estimated flow values on the Monthly Operating Reports (MORs). This is not acceptable. Acceptable methods for estimating flow, in order of preference include: 1) elapsed time meters on sand filter dosing pumps; 2) elapsed time meters on influent pumps; or 3) water use records. Since this facility has no sand filter dosing pumps or influent pumps at this time, water use records should be used for estimating daily flow.

Also, this office does not have record of receipt of the Monthly Operating Reports for December 2007. Monthly Operating Reports that are submitted electronically are due on the 20th day of the month following the month-of-interest. Reports that are submitted in hard copy are due the 15th day of the month following the month-of-interest.

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

Please inform this office, in writing, within ten days of the date of this letter, the reasons for the referenced violations and deficiencies, as well as a description of the actions taken to prevent any further violations. Your response should include proposed dates for completion of the actions.

Should you have questions, do not hesitate to contact this office at (330) 963-1183.

Sincerely,



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

MU/mt

cc: Terry Kent, R.S., Lake County General Health District